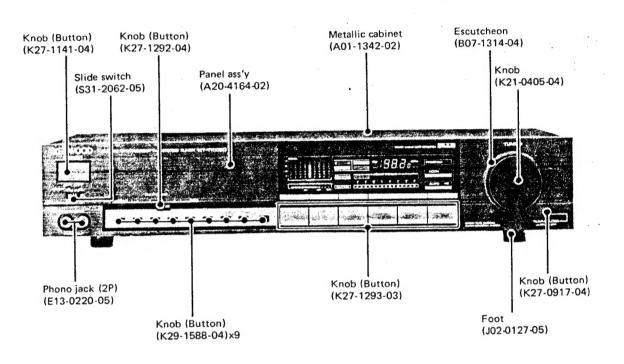
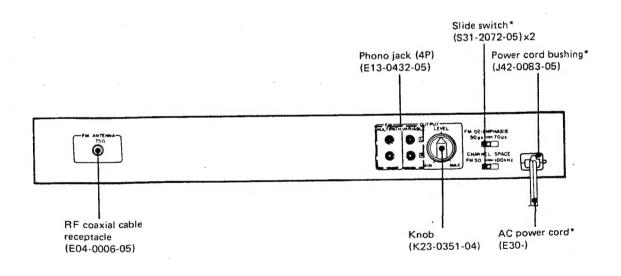
KENWOOD KT-1100SD

QUARTZ SYNTHESIZER FM STEREO TUNER







Operation of active elements

Tuner unit (X05-2810-11)

Element	. Function	Operation (compatible)				
IC1 1/2	DCC distortion component adder					
IC1 2/2	PLL detector DC amp					
IC2 1/2	Noise amp	Amplifies the noise detection component of more than approx. 150kHz.				
102.2/2	Band, noise muting detection	With no input or incomplete detuning, output $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				
IC2 2/2	comparator	With normal tuning, it is + 11V at ⑤ > ⑥ . (AN6556)				
103	Multiplier	Multiplies the composite signals from the detector by each other to generate the				
rC3	Mattipliel	secondary distortion elimination signal.				
104	Multiplier	Multiplies the secondary distortion signals generated at IC3 and IC6 and the composite				
IC4	Mortiplie	signal, to generate the tertiary distortion elimination signal.				
ICE	Manteiplier	Multiplies the secondary distortion signals generated at IC3 and IC6 by each other to				
IC5	Multiplier	generate the quaternary distortion elimination signal.				
IC6 2/2	Current-voltage conversion	Converts the current output of IC3 (multiplier) into a voltage output.				
100 1/0	Consider distortion signal amp	The variable gain amp which changes the correction amount of distortion correspond-				
IC6 1/2	Secondary distortion signal amp	ing to FM-IF band selection. (NJM4560)				
IC7 1/2	Current-voltage conversion	Converts the current output of IC4 into a voltage output.				
IC7 2/2	Current-voltage conversion	Converts the current output of IC4 into a voltage output, (NJM4560)				
100 1/2	DET distortion correcting differential	Changes the differential balance by VR1 to vary the gain and phase.				
IC8 1/2	amp	Granges and distributions business by Title to tary the gain and process				
IC8 2/2	Secondary stereo (Lch only) .	Changes the differential balance by VR3 to vary the gain and phase. (NJM4560)				
100 2/2	distortion correction differential amp	Changes the Christian Solution Sy				
IC9 1/2	Secondary MONO distortion	Changes the differential balance by VR2 to vary the gain and phase.				
109 1/2	correction differential amp	Silanges the entremental transfer of				
IC9 2/2	Quaternary distortion (primary	Changes the differential balance by VR6 to vary the gain and phase. (NJM4560)				
109 2/2	differentiation) correction	Changes the Change State				
1	differential amp	·				
IC10 1/2	Tertiary stereo (SUB) distortion	Changes the differential balance by VR5 to vary the gain and phase.				
1010 1/2	correction differential amp	onange the contract of the con				
	Quaternary distortion (secondary					
IC10 2/2	differentiation) correction	Changes the differential balance by VR7 to vary the gain and phase. (NJM4560)				
·	differential amp					
		Forms the feedback loop by 2 integrators (1/2) and (2/2) for oscillation. The output				
IC11	REC CAL OSC integrator	of (2/2) is a sine wave. At OFF, the voltage at pin (5) rises by D46 and the voltage at				
		pin (7) is fixed to +11V so that OSC stops. (AN6556)				
IC12 1/2	Pilot cancel signal inversion amp					
	Composite signal-REC CAL signal	REC CAL OFF: Adds the composite signal and the pilot cancel signal and performs				
IC12 2/2	selection and pilot cancel inversion	inversion amplification.				
d w	adder	REC CAL ON: Inversion-amplifies the REC CAL signal.				
		Pin (5): Stereo with auto quieting control pin at less than 1.0V. Mono with pin at				
		more than 1.8V.				
		Pin 6 : 38kHz square wave output				
IC13	38kHz subcarrier generating MPX IC	Pin (1) : Stereo indicator drive				
		Pin (12) : Pilot cancel signal (triangle wave) output				
		Pins 13 - 16 : PLL loop filter				
***		Pin (17) : VCO				
		Multiplies the composite signal and the 38kHz subcarrier. The respective I/O pins are				
		at current mode.				
IC14~17	SUB demodulation linear multiplier	Pin ① : 38kHz input				
		Pin 4 : Output				
		Pin 8 : Composite signal input				
IC18 1/2	SUB signal inversion	Inverts the Rch SUB signal.				



SPECIFICATIONS

[FM tuner section]

	DISTANCE	DIRECT
Usable sensitivity	10.8 dBf	25.2 dBf
	$(0.95 \mu V)$	$(5.0 \mu V)$
50dB quieting sensitivity		
Mono	16.2 dBf	31.2 dBf
	$(1.8 \mu V)$	$(10.0 \mu V)$
Stereo	38.1 dBf	51.2 dBf
	(22 μV)	$(100 \mu V)$
Signal to noise ratio (85 dBf)		
Mono	92 dB	
Stereo	86 dB	
Total harmonic distortion	WIDE	NARROW
Mono: 100 Hz	0.007%	0.02%
1,000Hz	0.004%	0.01%
50 Hz ~ 10,000 Hz	0.009%	0.04%
Stereo: 100 Hz	0.015%	0.04%
1,000 Hz	0.008%	0.03%
50 Hz ~ 10,000 Hz	0.04%	0.15%
Capture ratio	1.0 dB	2.5 dB
Alternate channel selectivity (±400 kHz).	70 dB	100 dB
Stereo separation		
1,000 Hz	70 dB	58 dB
50 Hz ~ 10,000 Hz	55 dB	45 dB
15,000 Hz	45 dB	40 dB
Frequency response	20 Hz to 15 k	
	+0.5 dB, -0.5	dB
Spurious rejection ratio	110 dB	
Image rejection ratio	80 dB	
IF rejection ratio	110 dB	
AM suppression ratio	80 dB	
Subcarrier suppression ratio	70 dB	
Antenna impedance	75 ohms unba	
Tuning frequency range	87.5 MHz to 1	108 MHz
Output level at 1 kHz 100% dev.		
Fixed	$0.6V/2.3~k\Omega$	
Variable	MAX 1.2V/1 k	Ω
Multipath output		
Vertical	$0.05 \text{V}/10 \text{k} \Omega$	

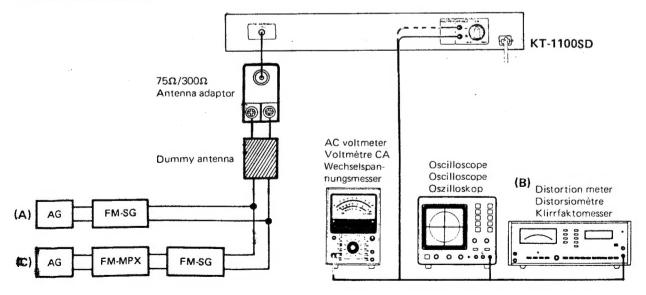
0.6V/10kΩ

[General]

Power requirement	120V, 60 Hz
	(U.S.A. and Canada models)
	Model sold elsewhere incor-
	porates switches to acco-
	modate 50/60 Hz,
	120/220-240V
Power consumption	22 W
Dimensions	W: 440 mm (17-5/16")
	H: 88 mm (3-15/32")
	D: 326.5 mm (12-27/32")
Weight (Net)	4.6 kg (10.2 lb)

SYSTEM CONNECTIONS

Horizontal





IC18 2/2 IC19 1/2 IC19 2/2	Current-voltage conversion (I–V)	Converts the current mode SUB demodulation signal emitted from IC14~17 into a
	I	voltage output.
	Rch adder	Outputs the Rch signal in MAIN –SUB.
1013 2/2	Lch adder	Outputs the Lch signal in MAIN + SUB.
IC20 1/2	Rch output amp	Makes de-emphasis at the same time.
IC20 2/2	Lch output amp	Makes de-emphasis at the same time. (NJM4558)
IC21	Skipped number TUNED (STOP) signal detection comparator	Inputs the reference voltage (1.4V) to pin ③ (negative input). Inputs SIGNAL to pin ④ (positive input). Also applies the positive feedback from pin ② (output) to perform Schmitt operation. It is pulled into the negative side by the M & noise signal (IC2 2/2), therefore only when the M & noise signal is "H" and SIGNAL is more than 1.4V, the output is "H" where the TUNED signal is output.
IC22 2/2	SIGNAL amp	Adds the voltage change from the emitter of the differential amp in the IF amp stage and performs non-inversion amplification. (AN6556)
IC23 1/2	Inversion amp	Varies the voltage range of the DC input to IC23 (2/2) and IC24.
IC23 2/2	FM IF BAND change comparator (between N1 and N2)	Switches CF5, Q33 and Q48.
IC24 1/2	FM IF BAND change comparator (between W2 and N1)	Switches CF4, Q32 and Q47.
IC24 2/2	FM IF BAND change comparator (between W1 and W2)	Switches CF3, Q31 and Q46.
IC25 1/2	DIRECT-DISTANCE selection comparator	DIRECT when pin ③ > ④ (2.2V) DISTANCE when pin ③ < ④
IC25 2/2	Muting signal generation comparator in FM IF BAND selection	At steady state: Pin 6 + 0.3V Pin 7 -0.3V Pin 8 + 11V At selection: Pin 8 is -10V at pin 6 < 7 . (6msec.)
IC26	FM OSC divider	Divides FM OSC by 30 or 32.
IC27	DTS controller	Controls the PLL synthesizer, display, etc.
IC28 1/2	1st stage D-FF	$Q = "H"$ by first OFF \rightarrow ON in program operation.
IC28 2/2	Clock pulse generating one-shot multivibrator	Generates at rising edge of the INH clock pulse to IC28 (1/2) or IC29 D-FF. (MB84013BM)
IC29 1/2	3rd stage D-FF	Q = "H" by second OFF → ON in program operation.
IC29 2/2	2nd stage D-FF	Like wise, Q = "H" by second OFF → ON. (MB84013BM)
IC30 1/3	M8 call 2-input NOR	When Q (pin ②) of IC28 (1/2) is "L" and the clock pulse from IC28 (2/2) is "L", and the output (Pin ③) is "H" where MEMORY 8 is called.
IC30 2/3	M6 call 3-input NOR	When Q (pin ②) of IC28 (1/2) is "L" and Q (pin ③) of IC29 (2/2) "L" and the clock pulse is "L", the output (pin ⑥) is "H" where MEMORY 6 is called.
, 1C30 3/3	M6 call 3-input NOR	When Q (pin ②) of IC28 (2/2) is "L" and Q (pin ①) of IC29 (1/2) is "L" and the clock pulse is "L", the output (pin ①) is "H" where MEMORY 7 is called. (MC14025BCP)
IC31	T-FF for different modes	DEVIATION ON/OFF input pin (5), output pin (1) REC CAL ON/OFF input pin (14), output pin (3) MUTING ON/OFF input pin (3), output pin (5) AUTO/MANUAL input pin (12), output pin (7) At backup, pins (2), (4), (6), (9) and (10) are "L".
IC32 1/4	Muting signal generating 2-input NOR in DIRECT-DISTANCE selection	
IC32 2/4	2-input NOR	Only at REC CAL OFF (pin 6 "L"), outputs the "H" muting signal in DIRECT-DISTANCE selection or FM IF BANS selection.
IC32 3/4	R-S FF for DIRECT-DISTANCE	Forms the R-S FF by embination with 4/4 and selects DISTANCE when pin (13) is "H".
IC32 4/4	selection	Selects DIRECT when pin (9) is "H". (MC14001BCP)



Element	Function	Operation (compatible)
Q1	RF amp	
Q2	Mixer	·
Q3,4	IF amp	
Q5	Mixer OSC buffer	
Q6	OSC	
Q7	PLL OSC buffer	
Q8~27	IF amp	
Q28,29	PLL DET OSC	
Q30	DCC input ON/OFF	With small input (TUNED = "L"), stops DCC.
Q31	DCC correction amount control	OFF → ON at IF BAND W1 → W2
Q32	DCC correction amount control	OFF → ON at IF BAND W2 → N1
Q33	DCC correction amount control	OFF → ON at IF BAND N1 → N2 *
Q34	REC CAL control	REC CAL ON : OFF REC CAL OFF : ON
Q35	REC CAL control	REC CAL ON : ON REC CAL OFF : OFF
Q36	FM/REC CAL signal selection	FM : ON REC CAL : OFF
Q37	FM/REC CAL signal selection	FM : OFF REC CAL : ON .
Q39	38kHz differential amp	
Q40	38kHz buffer	
Q41	SIGNAL signal inversion	
Q42	MO/ST selection by TUNED signal	ON when stereo signal is received and TUNED is "H".
Q43	MONO/ST control	MONO : OFF STEREO : ON
Q44	MONO/ST control	MONO : ON STEREO : OFF
Q45	SUB signal ON/OFF	MONO : ON STEREO : OFF
Q46	Separation correction amount control	OFF → ON at IF BAND W1 → W2
Q47	Separation correction amount control	OFF → ON at IF BAND W2 → N1
Q4B	Separation correction amount control	OFF → ON at IF BAND N1 → N2
Q49~52	MUTING	ON at muting operation and OFF at no muting operation.
	SIGNAL temperature characteristic	Matches the positive and negative input signals of IC22 (2/2) in respect to temperature
Q53	correction	characteristic.
Q54	DISTANCE power driver	DIRECT : OFF DISTANCE : ON
Q55	PLL LPF	
Q56	PLL LPF	· ·
Q57	PLL LPF	
Q58	AUTO/MANUAL selection	AUTO SCAN : OFF MANUAL SCAN : ON
Q59	REC ON/OFF operation detection	ON when REC CAL SW is turned ON/OFF. The collector is "H".
Q60	DEVIATION OFF	ON at DEVIATION OFF. The emitter is "L" (0.6V).
Q61	DIRECT/DISTANCE control	DIRECT : ON DISTANCE : OFF
Q62	DISTANCE indication control	DIRECT : OFF DISTANCE : ON
Q63	MUTING control by DTS	On at scan or preset call, Normally OFF.
	MUTING control in operation of	•
Q64	REC SW, DIR/DIS SW, IF BAND VR	ON at SW operation or at IF BAND VR operation (only at TUNED = "L".)
Q65	MUTING ON/OFF control	MUTE ON: OFF, MUTE OFF: ON and then it turns OFF D67.
		At output muting operation : ON, collector + 4.3V
Q66	MUTING FET control	At no output muting operation : OFF, collector -11V
Q67	MUTING FET control	Forms the Schmitt trigger by combination with Q66.



D1~8		
	RF tuning	
D9~14	OSC tuning	
D15,17	DIRECT/DISTANCE selection at RF tuning stage	DIRECT : ON DISTANCE : OFF
D16,18	DIRECT/DISTANCE	DIRECT : OFF DISTANCE : ON
D19,20	IF BAND W1/W2 selection	W1 : OFF W2,N1,N2 : ON
D21,22	IF BAND W1/W2 selection	W1 : ON W2,N1,N2 : OFF
D23,24	IF BAND W1/N1 selection	W1,W2:OFF N1,N2:ON
D25,26	IF BAND W2/N2 selection	W1,W2:ON N1,N2:OFF
D27,28	IF BAND N1/N2 selection	W1,W2,N1 : OFF N2 : ON
D29,30	IF BAND N1/N2 selection	W1,W2,N1 : ON N2 : OFF
D31~34	PLL DET phase comparator	142.07
D35	PLL DET VCO	
D36	Current regulator diode	0.37
D37	For PLL DET reference power	8.2V .
D38	For PLL DET temperature	
	characteristic correction	
D39,40	For detune detection	ON at detune
D41	Level shift	
D42	Detune by noise	ON at small input
D43	Noise detection	
D44,45	REC CAL amplitude limitation	
D46	REC CAL OSC stop	REC CAL ON : OFF REC CAL OFF : ON
D47	For MPX IC power	8.2V
D48	SIGNAL temperature compensation	
D49	TUNED control by M & noise	ON at small input or detune
D50,51	IC25 2/2 input clamp	
D52	Negative input cut	
D53,54	Backup current leak prevention	
D55	AUTO SCAN selection	
D56	Preset ch-6 call	
D57	Preset ch-7 call	
D58	Preset ch-8 call	
D59	Backup current leak prevention	
D60	Negative input cut	
D61,62	(REC ON) or (TUNED)	
	Mute in DIR/DIS SW operation	
D63,64	and in IF BAND selection	
D65	Backup current leak prevention	
D66	Muting control	
D67	Muting control	ON at MUTING ON and TUNED = "L"
D68	Muting control	
D69	Muting control	ON at REC CAL ON
D70	Muting control	Delays the rise of TUNED "L" → "H".
D71	Level shift	0.6V down -
D72	Muting control	0.01 0.011
D73	Level shift	0.6V down
D73	Muting control	ON at TUNED = "H".
D75	Level clamp	Clamps to -0.6V the negative voltage of MUTE in IF BAND selection.
<i>575</i>		CIBILIPS TO COLOR THE HEIGHT VOITING OF WICHE HITH DAIND SELECTION,



Accessory unit (X13-4740-11)

Element	Use	Operation
Q1	Deviation meter control	At ON, the meter goes off.
Q2,3	Deviation meter reset	Reset the meter peak hold in a fixed period.
Q4,5	Differential SW	Detect the tune/detune against the S curve center.
Q6,7	Detune detection, driver	Detect the S curve detune and light the T meter FL.
Q8	Detune detection	ON at detune and makes Q6 and Q7 active.
Ω9	WIDE indication control	At ON, the WIDE display goes out.
Q10	NARROW indicator control	At ON, the NARROW display goes out.
Q11,12	50k indication control	Controls the 50kHz LED segments by ON-OFF.
IC1	Deviation meter	
C2 1/2(1~3)	Level shift	Shifts the T meter center voltage.
C2 2/2(5~7)	S meter drive	Drives the 6th unit of the S meter FL.
C3 1/2(1~3)	Buffer	
IC3 2/2(5~7)	S meter drive	Drives the 7th unit of the S meter FL.
IC4	T meter	Controls the lateral axis of the T-S meter FL.
IC5	S meter drive	Drives the 1st~5th units of the S meter FL.
IC6,7	FL drive	Convert the system of low voltage (5V) into that of high voltage (14V) and drive FL.
IC8	f indication driver	f display static driver.
IC9	Tuning detection	Detects the up or down frequency directon of tuning.
IC10	UP/DOWN control	Distribute pulses to the up frequency and down frequency sides according to the tuning direction.
IC11	Frequency division, monostable	Divides the tuning pulse and holds it for a fixed period.



Muting control

1. At power ON ←→ OFF

When an "L" signal is input from X00-2290-11 via D72 and R452 to Q66 to turn ON, its collector voltage is + 4.5V so that the muting turns ON.

2-1 At REC ON ← OFF

The muting works through the course of SW ON \rightarrow Q59 ON \rightarrow Q64 ON \rightarrow Q66 ON. After that, Q64 turns OFF and its collector voltage rises approx. 1sec by a capacitor C184. Then, Q66 turns OFF and the muting is cancelled.

2-2 At REC ON

+ 5V from the collector of Q35 is input via D69 and the cathode of D68 is made "H". Then, the muting operation by the muting signal from DTS or the TUNED signal is prevented.

Likewise, when pin 6 of IC32 (2/4) is made "H", the muting operation in IF BAND or DIRECT-DISTANCE selection at pin 5 is prevented.

3. At DTS SW operation (scan, preset call)

By the mute signal of pin 28 of TC9147, Q63 turns ON and Q66 turns ON so that the muting operation goes ON. After that, the signal of pin 28 becomes "L". Then, Q63 turns OFF and Q66 turns OFF after approx. 1sec by a capacitor C183 and a resistor R446, thereby cancelling the muting.

4. Muting by TUNED signal

When the TUNED signal becomes "L" (-11V), Q66 turns ON and the muting goes ON.

At MUTE OFF, pin (5) of TC9130P becomes "L", Q65 turns ON and the cathode of D67 becomes "H", Then, the muting by the TUNED signal goes OFF.

5. At DIRECT ←→ DISTANCE change

The changes in level of pins 1 and 1 of μPD4001 are momentarily input to pins 1 and 2 via a capacitor C181 and C182, and the output of pin 3 is made "L".

An "L" signal is input to pin 5 of μPD4001 via a diode D63 and as pin 6 is also "L", pin 4 becomes "H". Thereby, Q64 and Q66 turn ON so that the muting goes ON. After that, as pin 3 of μPD4001 returns to "H", pin 4 of IC32 (2/4) becomes "L" and Q64 turns OFF and Q66 turns OFF after a certain time (C184).

Therefore, the muting is cancelled.

- **6.** At FM IF BAND change (at non-tuning = TUNED "L") An "L" signal is input to pin \bigcirc of μ PD4001, after which the subsequent operation is the same as at item 5.
- **7.** Q67 applies the positive feedback to Q66 so that hysteresis is applied to the input to the base of Q66.

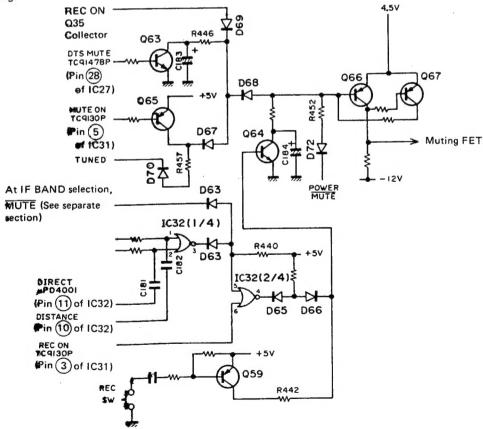


Fig. 1 Muting control



Muting operation in FM IF BAND selection, and BAND selection

For FM IF BAND selection, the voltage given by VR3 is subject to comparison by 3 ICs (IC23 (2/2), IC24 (1/2), IC24 (2/2)) and the undermentioned voltages are output lines (a) \sim (c) .

The muting signal in IF BAND selection is generated by IC25 (2/2).

- 1. At steady state, the positive input (pin 6) of IC25 (2/2) is kept at +0.3V and the negative input (pin 7) at -0.3V. Then, since the output (pin 8) is "H" (+11V), the muting is OFF.
- 2. When changing the band by IF BAND VR, when a comparator (IC23 (2/2), IC24 (1/2), IC24 (2/2)) shown below is inverted from "L" (-9V) to "H" (+ 10V), the differentiated voltage of the positive side is input to pins and 6 via capacitors (C146~C151). However, since pin 6 is clamped to 0.6V by a diode (D50), the output of pin 8 becomes "L"s (-10V) at pin 6 < pin 7.

However, since the differentiated input gradually returns to its previous level, the output of pin (8) becomes "H" again.

- 3. When the comparator is inverted from "H" to "L", the input of pin (7) is clamped by a diode D51 and the output of pin (8) becomes "L" from "H" at pin (6) < pin (7) as mentioned previously. However, it returns gradually, to its previous level as in item 2, so that the output of pin (8) becomes "H".
- **4.** At normal tuning (TUNED = "H" (+ 11V)), an "H" signal is input via a diode D74. Therefore, even when the band is changed, no muting signal is output.
- **5.** As illustrated, the voltages of lines (a) ~ (C) are each input to the BAND select SW in the IF amp. Then, with the values shown in the table below, the IF band is continously varied.

Voltage (V) IF BAND	а	р	С
W1	-9	-9	-9
W2	+ 10	-9	9
N1	+ 10	+ 10	-9
N2	+ 10	+ 10	+ 10

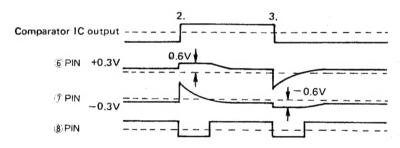


Fig. 2

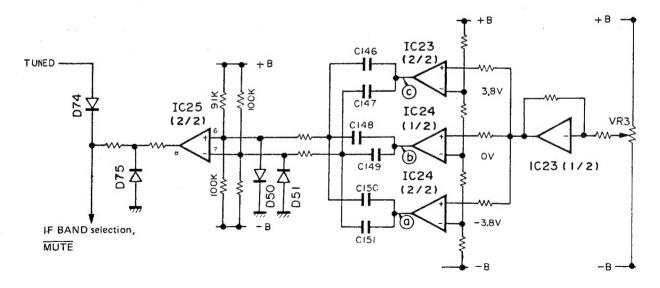


Fig. 3 FM IF BAND select circuit

Digital rotary tuning

The basic configuration is that the transparent slits (30 slits) on the rotating disk attached to the tuning knob pass through IC9 as shown, whereby the rotary direction is identified, until the required reception frequency is obtained.

• IC9 is a photo-interrupter incorporating LED (lightemitting diode), phototransistor and logic circuits.

The phototransistors are arranged in a pair.

1. the signal which identifies the rotary direction is output from pin 4.

Clockwise rotation (tuning to high frequency band) : high level

Counterclockwise rotation (tuning to low frequency band): low level

2. The tuning speed is determined by the number of pulses to be output from pin 5 which are proportional to the number of slits.

So that by using these two signals (a and b) the UP and DOWN pulses are obtained, logic circuits IC10 and IC11 are added.

IC11 prevents malfunction and serves as a frequency divider and monostable multivibrator. IC10 distributes pulses for UP or DOWN directions.

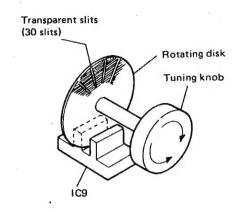


Fig. 4

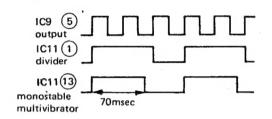


Fig. 5

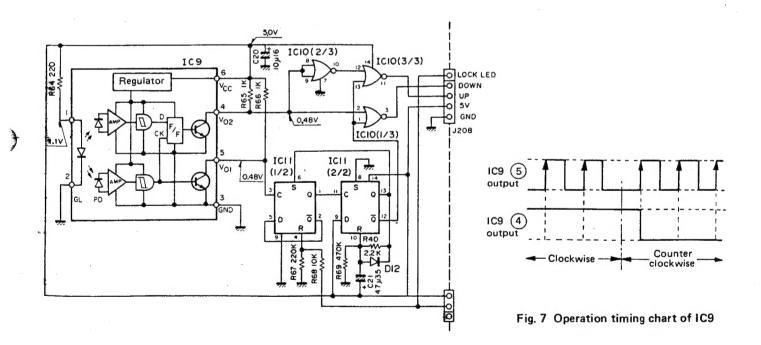


Fig. 6 Digital rotary tuning circuit



4-station program (memory call)

At PROGRAM SW ON, whenever the POWER SW is turned ON, station call is possible in the order of last channel \rightarrow CH6 \rightarrow CH7 \rightarrow CH8.

1. FF1 operation (one-shot multivibrator)

When pin 40 ($\overline{\text{INH}}$) of TC9147 rises, Q also rises. When the voltage of CLEAR (CL) goes up gradually by a CR time constant and the voltage of pin CL reaches the threshold, FF1 is reset and Q becomes "L". (See Fig. 8.)

2. FF2~4 operations (shift register)

At the rise of output \overline{Q} of FF1 (input CP of each FF), each FF outputs the signal level of D to Q, i.e., this circuit performs the shift operation of "L" to "H" of output Q sequentially whenever the power is turned ON. The following table shows the FF2 \sim 4 operations.

3. Since CL becomes "H" at PROGRAM SW OFF, FF2~ 4 are cleared.

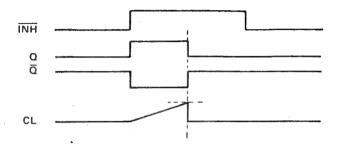


Fig. 8 FF1 one-shot waveform

	FF2	FF3	FF4	СР	NOR1'	NOR2	NOR3	PROGRAM
1st time	H (Q)	H (Q)	H (Q)	L	L	L	L	Last CH
2nd time	L (Q)	L (Q)		L	Н	L	L	6 CH
3rd time		L (Q)	L (Q)	L	L	Н	L	7 CH
4th time	,		L (Q)	L	L	L	Н	8 CH

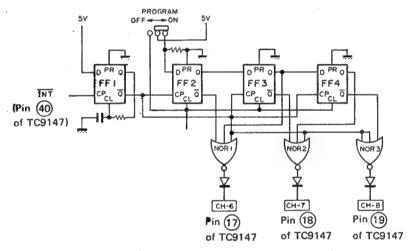
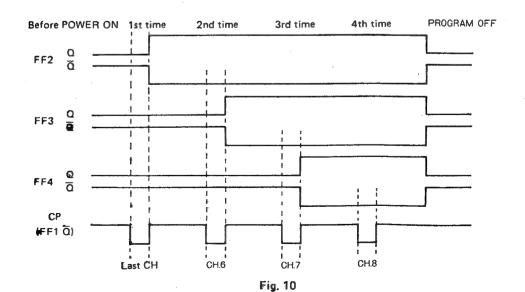


Fig. 9 Program circuit





ADJUSTMENT

		INPUT	OUTPUT	TUNER	ALIGNMENT		T
No.	SECTION	SETTINGS	SETTINGS ified, the individual	SETTINGS	POINTS	ALIGN FOR	FIG.
		DIR/DIS: DISTANCE	MUTING: ON MODULATION ROGRAM: OFF/A OUT PUT	: DN REC CAL	.: OFF IF B		
1	BAND EDGE	-	Connect a DC voltmeter between TP1 and TP2.	87.5MHz	L6	3.0V	(a)
2	BAND EDGE	_	Connect a DC voltmeter between TP1 and TP2.	108.0MHz	TC6	24.09	(a)
			Repeat alignments 1 am	d 2 several ti	mes.		
3	DETECTOR	(A) 98.0MHz 1kHz,±75kHz dev 80dB(ANT input)	Connect a DC voltmeter between TP7 and TP8.	98. ONH2	L21	0.004	(b)
4	RF ALIGNMENT	(A) 90.0MHz 1kHz,±75kHz dev	(B)	MUTING:OFF 90.0MHz	L5 L1 ~ 4	Maximum amplitude and symmetry of the oscilloscope display.	
5	RF ALIGNMENT	(A) 106.0MHz 1kHz,±75kHz dev	(B)	MUTING:OFF 106.0MHz	TC5 TC1~4	Maximum amplitude and symmetry of the oscilloscope display.	
			Repeat alignments 4 an	d 5 several ti			
6	IFT	(A) 98.0MHz 1kHz,±75kHz dev 0dB(ANT input)	(B)	MUTING:OFF 98.0MHz	L11.12	Maximum amplitude and symmetry of the oscilloscope display,	
7	MUTING LEVEL	(A) 98.0MHz 1kHz,±75kHz dev 12dB(ANT input)	(B)	HUTING:ON 98.0MHz	VR13	OUTPUT OFF→ON	
8	VCO 🚣	(A) 98.0MHz 0 dev 80dB(ANT input)	Connect a frequency counter to TP9 via an AC voltmeter.	98.0MHz	VR12	76.000kHz	(d)
9	PILOT CANCELLER (1)	(C) 98.0MHz Odev Pilot:*6.75kHz dev 80dB(ANT input)	Connect a AC voltmeter between TP10 and TP11.	98.0MHz	VR11	Minimum 19kHz output.	
10	PILOT CANCELLER (2)	(C) 98.0MHz Odev Pilot:±6.75kHz dev 80dB(ANT input)	Connect a AC voltmeter between TP10 and TP11.	98.0MHz	L26	Minimum 19kHz output.	
		R	epeat alignements 9 an	d 10 several t	imes.		
11	SUB	(C) 98.0MHz Selector: SUB 100Hz,±68.25kHz dev Pilot:±6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	L28	Minimum distortion.	
12	DISTORTION (1)	(A) 98.0MHz 100Hz,±75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR1	Minimum distortion.	
13	DISTORTION (2)	(A) 98.0MHz 1kHz,±75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR2	Minimum distortion.	
14	DISTORTION (3)	(A) 98.0MHz 1kHz,±75kHz dev 80dB(ANT input)	(B)	98.0MH2	VR4	Minimum distortion.	
15	DISTORTION (4)	(C) 98.0MHz 1kHz,*68.25kHz dev Selector: L Pilot:*6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR3	Minimum distortion.	
16	DISTORTION (5)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector: SUB Pilot:±6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR5	Minimum distortion.	



ADJUSTMENT

	+	1	ITEM	SETTI (C)	NGS	OU' SETT	TPUT INGS	1	TUNER		ALIGNMENT		
	1	7 DIST	ORTION 6)	98.0MH 10kHz,±68.25 Selector: Pilot: ±6.75 80dB(ANT i	kHz dev MAIN	(B)			B. OMHz	2	POINTS	ALION FOR	F
	18	DISTO	ORTION ')	98.0MHz 10kHz,±68.25k Selector: Pilot: ±6.75k 80dB(ANT in	Hz dev L Hz dev put)	(B)		1	OMHZ		VR7	Minimum distortion.	
	19	DISTOR (8) W2		(C) 98.0MHz 1kHz,±63.25kH Selector: S Pilot: ±6.75kH: 80dB(ANT inp. (C)	z dev UB	epeat alignme	ents 12		ND:W2		R8	Minimum distortion.	
-	20	DISTORT (9) N1	İ	98. OMHz 1kHz, ±68. 25kHz Selector: SU ilot: ±6. 75kHz 80dB(ANT input	В	(B)		IF BAN 98.0M	iD:N1 IHz	VR	9	Minimum distertion.	
-	21	DISTORTI (10) N2	Pi	98.0MHz 1kHz, ±68.25kHz Selector: SUB lot: ±6.75kHz 80dB(ANT input)	dev	(B)		IF BANI 98. OMB):N2 z	VR1	0	Minimum distortion.	
22	+	SEPARATION R→L SEPARATION	Pil 8	KHz, ±68.25kHz d Selector: R ot: ±6.75kHz d OdB(ANT input) (C) 98.0MH	ev	(B) Leh		98. OMHz		VR13		Minimum crosstalk,	
23	-	(2) L→R EPARATION	Pilo 80	Hz, ±68.25kHz de Selector: L t: ±6.75kHz de dB(ANT input) (C) 98.0MHz	,	(B) Reh		98. OMHz		VR14		Minimum crosstalk.	\neg
4		(3) W2	Pilot	z, ±68.25kHz dev ector: L or R : ±6.75kHz dev B(ANT input) (C) 98.0MHz		(B)	1F 9:	BAND: N2 B. OMH2		VR15	May	finiaum crosstalk. mpromise adjustment be required if L to R R to L separation are unequal.	1
1		PARATION (4) N1	Pilot:	±68.25kHz dev ector: L or R ±6.75kHz dev (ANT input)		(B)	IF 98.	BAND:N1 OMH2	V	R16	May be	nimum crosstalk. promise adjustment	1
	· T	ARATION (5) N2 -s TER	Select Pilot: 80dB(98.0MHz \$68.25kHz dev stor: L or R \$6.75kHz dev ANT imput) (A) 8.0MHz		(B)	IF B. 98. (AND:N2 OMHz	VR	17	Min A comp	unequal inum crosstalk, romise adjustment required if L to R o L separation are	
-		ATION	10H ₂ ;; 80dB(/ 98 1kH ₂ ;±	100kHz dev NT input) (A) .0MHz	(Flouresc	indicator)	98.0	MH2	VR2 (X13-4	74)	Syn	metry of the T-S meter.	
			80dB(A)	VT input)	Flouresce	nt ndicator)	98.0M	Hz	VR1 (X13-4)	74)	HODE	JLATION 100%	1



REGLAGE

		*Signal pilote ON:					
N.	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIC
SE	CTION MF	DIR/DIS: DISTANCE	ations spéciales, régler MUTING: ON MODULATION: ROCRAM: OFF/A OUTPUT: M	ON REC CAL: C			
1	BORD DE BANDE	_	Connecter un voltmètre CC entre les TP1 et 2.	87,5MHz	L6	3,00	(a)
2	BORD DE BANDE (2)		Connecter un voltmètre CC entre les TP1 et 2. Répéter les points 1 et	108,0MHz	TC6	24,00	(a)
	I	(A)	Repeter les points l'et	2 blustears 1	015.	The second secon	
3	DETECTEUR	98,0MHz 1kHz.±75kHz dév 80dB(Entrée ANT)	Connecter un voltmètre CC entre les TP7 et 8.	98,0MHz	L21	0,000	(b)
4	ALIGNEMENT HT	(A) 90,0MHz 1kHz.±75kHz dév	(B)	MUTING:OFF 90,0MHz	L5 L1 ~ 4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope,	
5	ALIGNEMENT HT	(A) 106,0MHz 1kHz.±75kHz dév	(B)	MUTING:OFF 106,0MHz	TC5 TC1~4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
		ZAMES - YORKID GOV	Répéter les points 4 et				
6	TRANSFORMATEUR FI	(A) 98,0MHz 1kHz.±75kHz dév 0dB(Entrée ANT)	(B)	MUTING:OFF 98.0MHz	L11,12	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
7	NIVEAU DU MUTING	(A) 98.0MHz 1kHz.±75kHz dév 12dB(Entrée ANT)	(B)	MUTING:ON 98,0MHz	· VR13	OUTPUT OFF→ON	
8	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0MHz Odév 80dB(Entrée ANT)	Connecter un compteur de fréquence à TP9 par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR12	·76,00kHz	(d)
9	CIRCUIT SUPPRESSION DE SIGNAL PILOTE (1)	(C) 98,0MHz Odév Signal pilote:0N ±6,75kHz dév 80dB(Entrée ANT)	Connecter un voltmètre CA entre les TP10 et 11.	98,0MHz	VR11	19kHz sortie minimale.	
10	CIRCUIT SUPPRESSION DE SIGNAL PILOTE (2)	(C) 98,0MHz Odév Signal pilote:ON 80dB(Entrée ANT)	Connecter un voltmètre CA entre les TP10 et 11.	98,0MHz	L26	19kHz sortie minimale.	
			Répéter les points 9 et	10 plusieurs	fois.		
. 11	SUB	(C) 98,0MHz 100Hz.±68,25kHz dév Sélection:SUB Signal pilote:ON 80dB(Entrée ANT)	(B)	98,0MHz	L28	Distorsion minimale,	
12	DISTORSION (1)	(A) 98,0MHz 100Hz.±75kHz dév 80dB(Entrée ANT)	(B)	98,0MH2	VR1	Distorsion minimale.	
13	DISTORSION (2)	(A) 98,0MHz 1kHz.±75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	VR2	Distorsion minimale.	
14	DISTORSION (3)	(A) 98,0MHz 1kHz.±75kHz dév 80dB(Entrée ANT)	(B)	98.0MHz	VR4	Distorsion minimale.	
15	DISTORSION (4)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L Signal pilote:ON 80dB(Entrée ANT)	(B)	98,0MHz	VR3	Distorsion minimale.	
16	DISTORSION (5)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:SUB Signal pilote:ON 80dB(Entrée ANT)	(B)	98,0MHz	VR5	Distorsion minimale.	



REGLAGE

		*Signal pilote ON: #	6,75kHz dév REGLAGE DE	RECLACE DU	POINT DE		Т
N* -	- ITEM	L'ENTREE	LA SORTIE	TUNER	L'ALIGNEMENT	ALIGNER POUR	FIG
17	DISTORSION (6)	(C) 98,0MHz 10kHz,±68,25kHz dév Sélection:MAIN Signal pilote:ON 80dB(Entrée ANT)	(B)	98,0MHz	VR6	Distorsion minimale.	
18	DISTORTION (7)	(C) 98,0MHz 10kHz.±68,25kHz dév Sélection:L Signal pilote:ON 80/B(Fntrée ANT)	(B)	98,0MHz	VR7	Distorsion minimale.	
			Répéter les points 12	~ 18 plusieurs 1	015,		T
19	DISTORSION (8) M2	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:SUB Signal pilote:ON 80dB(Entrée ANT)	(B)	IF BAND:H2 98,0MHz	VR8	Distorsion minimale.	
20	DISTORSION (9) N1	(C) 98,0MHz 1kHz: ±68,25kHz dév Sélection:SUB Signel pilote:ON 80dB(Entrée ANT)	(B)	IF BAND:N1 98.0MHz	VR9	Distorsion minimale.	
21	DISTORSION . (10) N2	(C) 98,0MHz 1kHz,±68,25kHz dév Sélection:SUB Signal pilote:ON 80dB(Entrée ANT)	(B)	IF BAND:N2 98,0MH2	VR10	Distorsion minimale.	
22	SEPARATION (1) D→G	(C) 98,0MHz 1kHz,±68,25kHz dév Sélection:R Signal pilote:ON 80dB(Entrée ANT)	(B) Leh	98,0MHz	VR13	Diaphonie minimale.	
23	SEPARATION (2) G→D	(C) 98,0MHz 1kHz.268,25kHz dév Sélection:L Signal pilote:ON 80dB(Entrée ANT)	(B) Rch	98,0MHz	VR14	Diaphonie minimale.	
24	SEPARATION (3) M2	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L or R Signal pilote:ON 80dB(Entrée AMT)	(B)	IF BAND:W2 98,0MHz	VR15	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
25	SEPARATION (4)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L or R Signal pilote:ON 80dB(Entrée ANT)	(B)	IF BAND:N1 98,0MHz	VR16	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
26	SEPARATION (5)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L ou R Signal pilote:DN 80dB(Entrée ANT)	· (B)	IF BAND:N2 98,0MH2	VR17	Diaphonie winimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
27	T - S METRE	(A) 98,0MHz 10Hz.±100kHz dév 80dB(Entrée ANT)	FIP indicateur	98,0MH2	VR2 (X13-474)	Symétrie de l'affichage de l'indicateur. (T-S metre)	
28	MODULATION	(A) 98,0MHz 1kHz,±67kHz dév 80dB(Entrée ANT)	FIP indicateur	98.0MHz	VR1 (X13-474)	MODULATION 100%	

ABGLEICH

		* Pilotten ON: ±6,75k	Hz Hub AUSGANGS-	TUNER-	ABGLEICH-		AOD
	GEGENSTAND	EINGANGS- EINSTELLUNG		EINSTELLUNG	PUNKTE	ABGLEICHEN FÜR	ABB.
IR. L U K V	V-EMPFAN	GSABTEILUNG	NID /NICO NICTANCE	MILLI I MIL. THE	verschiedenen MODULATION: ON OUTPUT: MAX	Schalter wie folgt einstelle REC CAL: OFF IF BAND: W	11
1	BANDKANTE	-	Einen Cleichspannungs- messer zwischen TP1 und TP2 anschließen.	87,5MHz	L6	3,0V	(a)
2	BANDKANTE	-	Einen Gleichspannungs- messer zwischen TP1	108,0MHz	TC6	24.0	(1)
	(2)		Abstimmungen 1 und 2 m	ehrere Male w	ederholen		T
3	DETEKTOR	(A) 98,0MHz 1kHz.*75kHz Hub 80dB(ANT-Eingang)	Einen Gleichspannungs- messer zwischen TP7 und TP8 anschließen.	98,0MHz	L21	0,00V.	(b)
4	HF-ABGLEICH	(A) 90.0MHz 1kHz. ±75kHz Hub	(B)	MUTING:OFF 90,0MHz	L5 L1~4	und Symmetrie des Oszilloskopbildes. Maximal Amplitude	-
5	HF-ABGLEICH (2)	(A) 106,0MHz	(B).	MUTING:OFF 106,0MHz	TC5 TC1~4	und Symmetrie des Oszilloskopbildes.	
	(6)	A	stimmungen 4 und 5 mehr	rere Male wied	erholen.		T
6	ZF-UBERTRAGER	(A) 98,0MHz 1kHz.±75kHz Hub OdB(ANT-Eingang)	(B)	MUTING:OFF 98,0MHz	L11,12	Maximal Amplitude . und Symmetrie des Oszilloskopbildes.	
7	RAUSCHSPERRE- PEGEL	(A) 98,0MHz 1kHz, 275kHz Hub	(B)	MUTING:ON 98,OMHz	VR13	OUTPUT OFF→ON	
8	SPANNUNGS- GEREGELTER	12dB(ANT-Eingang) (A) 98,0MHz 0 Hub 80dB(ANT-Eingang)	Einen Frequenzmesser an TP9 über einen Wechselspannungsmesser anschließen.	98,0MHz	VR12	76,00kHz	(q)
9	PILOT-LÖSCHER	(C) 98,0MHz 0 Hub Pilotten:0N ±6,75kHz Hub 80dB(ANT-Eingang)	Einen Wechselspannungsmesser zwischen TP10 und TP11 anschließen.	98,0MHz	VR11	19kHz Minimaler Ausgang.	
10	PILOT-LÖSCHER	(C) 98,0MHz 0 Hub Pilotten:ON	Einen Wechselspannungsmesser zwischen TP10 und TP11 anschließen.		L26	19kHz Minimaler Ausgang.	
		80dB(ANT-Eingang)	bstimmungen 9 und 10 mel	rere Male wie	derholen.		
11	SUB	(C) 98,0MHz 100Hz.e68,25kHz Hub Wishler:SUB Pilotten:ON 80dB(ANT-Eingang)	•	98,0MHz	L28	Minimale Klirrfaktor.	
12	KLIRRFAKTOR .	(A) 98,0MHz 100Hz. *75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MH2	VR1	Minimale Klirrfaktor.	
13	KLIRRFAKTOR (2)	(A) 98,0MHz 1kHz. ±75kHz Hub 80dB(ANT-Eing*ng)	(B)	98_0MHz	VR2	Minimale Klirrfaktor.	
14	KLIRRFAKTOR (3)	(A) 98,0MHz 1kHz.*75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MHz	VR4	Minimale Klirrfaktor.	
15	KLIRRFAKTOR (4)	98,0MHz 1kHz.±68,25kHz Hul Wähler:L Pilotten:ON 80dB(ANT-Eingang)	(B)	98,0MHz	VR3	Minimale Klirrfaktor.	
16	KLIRRFAKTOR (5)	(C) 98,0MHz 1kHz.±68,25kHz Hu Mähler:SUB Pilotten:ON 80dB(ANT-Eingang)	(8)	98,0MHz	VR5	Minimale Klirrfaktor.	



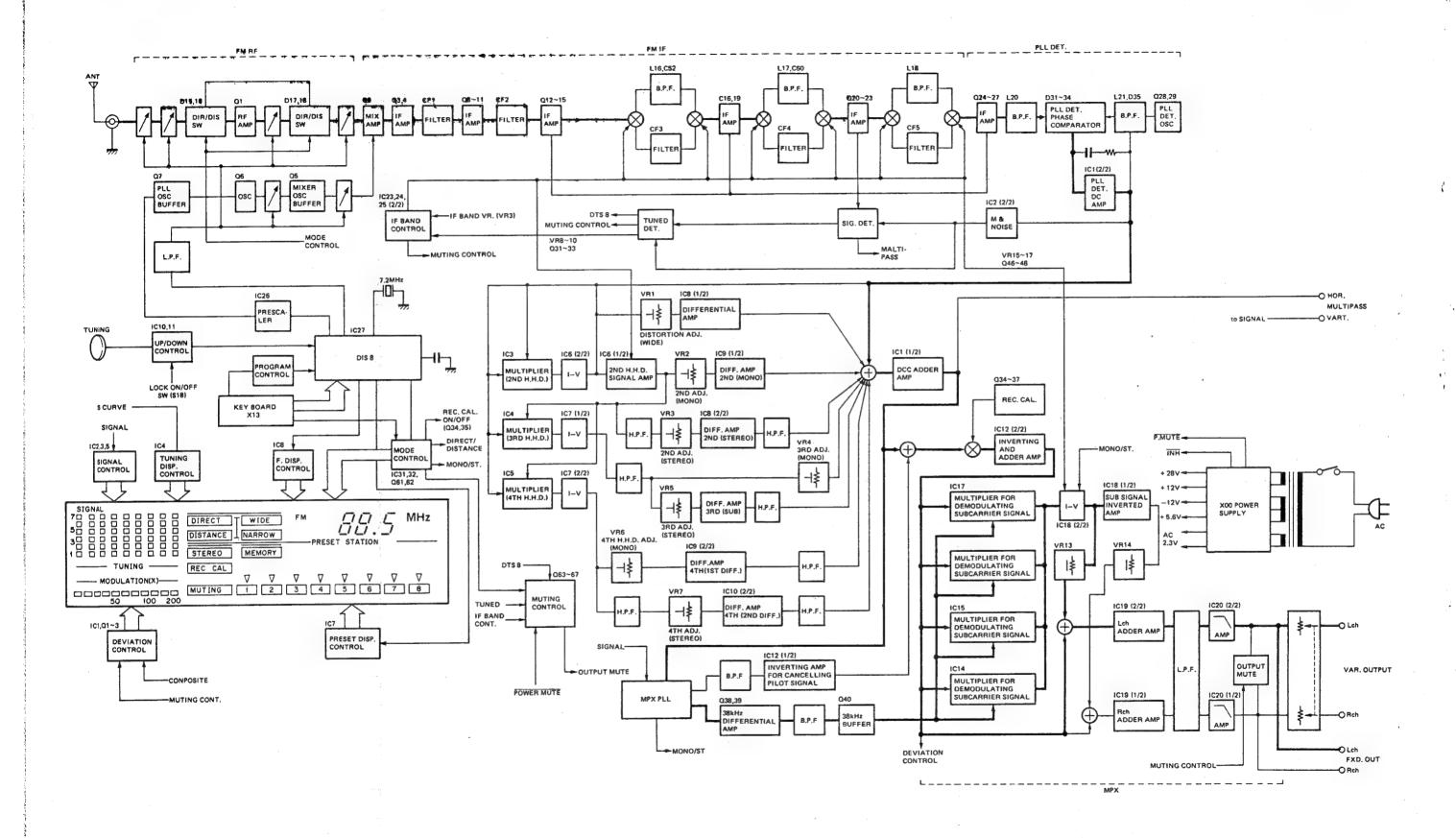
ABGLEICH

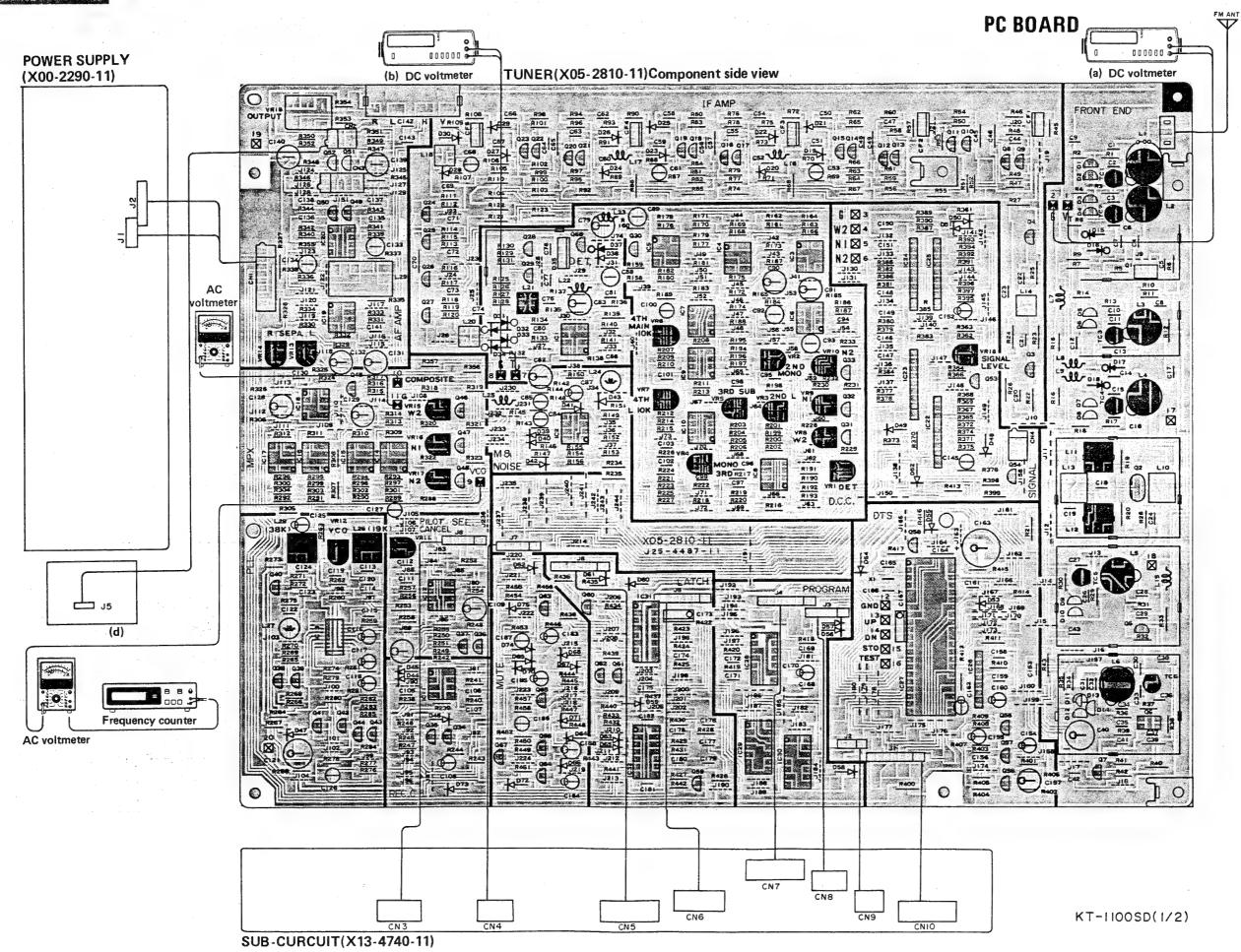
NR.	GEGENSTAND	*Pilottem ON: ±6,75kl EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	TUNER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB.
17	KLIRRFAKTOR (6)	(C) 98.0MHz 10kHz.±68.25kHz Hub Wähler:MAIN Pilotten:ON	(B)	98,0MHz -	VR6	Minimale Klirrfaktor.	
18	KLIRRFAKTOR (7)	80dB(ANT-Eingang) (C) 98,0MHz 10kHz.±68,25kHz Hub Wähler:L Pilotten:ON 80dB(ANT-Eingang)	(B) ~	98,0MHz	VR7	Minimale Klirrfaktor.	
		. Ab:	stimmungen 12~18 mehre	re Male wieder	holen.		
19	KLIRRFAKTOR (8) W2	(C) 98.0MHz 1kHz.*68,25kHz Hub Wähler:SUB Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:W2 98,0MHz	VR8	Minimale Klirrfaktor.	
20	KLIRRFAKTOR (9) N1	(C) 98,0MHz 1kHz.±68,25kHz Hub Mähler:SUB Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:N1 98,0MHz	vr9	Minimale Klirrfaktor.	
21	KLIRRFAKTOR (10) N2	(C) 98,0MHz 1kHz,±68,25kHz Hub Mähler:SUB Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:N2 98,0MHz	VR10	Minimale Klirrfaktor.	
22	STEREO KANAL TRENNUNG (1) R→L	(C) 98,0MHz 1kHz. ±68,25kHz Hub Wahler:R Pilotten:ON 80dB(ANT-Eingang)	(B) Leh	98,0MHz	VR13	Minimales Ubersprechen.	
23	STEREO KANAL TRENNUNG (2) L→R	(C) 98,0MHz 1kHz,±68,25kHz Hub Wahler:L Pilotten:ON 80dB(ANT-Eingang)	(B) Reh	98,0MHz	VR14	Minimales Ubersprechen.	
24	STEREO KANAL TRENNUNG (3) W2	(C) 98,0MHz 1kHz,±68,25kHz Hub Mähler:L oder R Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:W2 98,0MHz	VR15	Minimales Ubersprechen. Einen Ausgleichregelung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
25	STEREO KANAL TRENNUNG (4) N1	(C) 98,0MHz 1kHz.*68,25kHz Hub Wahler:L oder R Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:N1 98,0MHz	VR16	Minimales Ubersprechen. Einen Ausgleichregelung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
26	STEREO KANAL TRENNUNG (5) NZ	(C) 98,0MHz 1kHz.z68,25kHz Hub Mähler:L oder R Pilotten:ON 80dB(ANT-Eingang)	(B)	IF BAND:N2 98,0MHz	VR17	Minimales Übersprechen. Einen Ausgleichregelung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
27	T — S MESSER	(A) 98,0MHz 10Hz.±100kHz Hub 80dB(ANT-Eingang)	FIP Indikator	98,0MHz	VR2 (X13-474)	Symmetrie des Indikatorbildes, (T-S messer)	
28	MODULATION	(A) 98,0MHz 1kHz.±67kHz Hub 80dB(ANT-Eingeng)	FIP Indikator	98,0MHz	VR1 (X13-474)	MODULATION 100%	





BLOCK DIAGRAM





	G1	10.5V [11.7V]
01	G2	0V
Q1	S	3.3V [-2.5V]
	D	0∨
	G	0∨
Q2	S	3.7V
	D	10.4V
	G	0∨
Q3	S	1.7V
	D	_
	G	0∨
Q4	S	1.7V
4	D	5.4V
	G	ov
05	S	
Q5		
	D	
	G1	
Q6	G2	
	S	8.9V
	D	
	G	
Q7	S	0V
	D	8.7V
	G	
Q28,29	S	5.5V
	D	_
	В	4.3V <4.6V>
Q34	С	4.8V <-10.6V
	Е	5.0V
	В	_
Q35	C	-12V <4.8V>
	Ε	5.0∨
	В	
Q38	C	7.9∨
400	E	3.4V
	G	
Q40	S	
Q 40		7.9∨
	D	-0.4V (-2.7V)
044	В	-0.47 (-2.77)
Q41	С	10/// 20//
	E	-1.0V (+3.3V)
	В	1.3V (-1.3V)
Q42	С	
	Ε	
	В	
Q43	С	MONO 0.6V, ST. 15V
	Е	15V
	В	
	0	MONO 15V,
Q44	С	
	-	ST. –12V
	Е	15V
	G	
Q45	S	0V
	D	0V

KT-1100SD

1		
Q49~51	S	0V
	D	0∨
	G	-9.7V (0.6V)
Q52	S	0V
U32		
	10	0V
	В	0∨
Q53	C	0∨
	E	-0.7∨
	В	
Q54	C	12V
254		
1	E	DIS. 10.4V,
		[DIR7.4V]
	G	2.0V
Q55	S	_
	D	_
	В	
0.50		ļ
Q58	С	
	E	5V
İ	В	4.9∨
Q59	С	0.2V
	E	5.0V
	†	
	В	
Q60	C	0V
	E	DEV ON 4.3V
	-	DEV OFF 0.6V
	В	5V [4.3V]
Q61	С	-0.4V [4.9V]
1	F	5.01/
	E	5.0V
	В	
Q62	В	4 9V (0V)
Q62	B C E	
Q62	B C E B	4 9V (0V)
Q62 Q63	B C E B	4 9V (0V) 5.0V
	B C E B C	4 9V [0V] 5.0V 4.4V (SCAN ON)
	B C E B C	4.9V (DV) 5.0V 4.4V (SCAN ON) 0V
Q63	B C E B C E B	4 9V (0V) 5.0V
	B C E B C C	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V
Q63	B C B C E B C	4 9V (0V) 5.0V
Q63	B C E B C E B	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V
Q63	B C B C E B C	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V
Q63	B C E B C E B	4.4V (SCAN ON) 0V 0.2V 4.5V
Q63	B C E B C E B C E	4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V)
Q63 Q64 Q65	B C E B C E B C E B B	4 9V [0V] 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V
Q63	B C E B C E B C C	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V - -10.7V (4.3V)
Q63 Q64 Q65	B C E B C E B C E E	4 9V [0V] 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V
Q63 Q64 Q65 Q66	B C E B C E B C E B C E B	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V - -10.7V (4.3V)
Q63 Q64 Q65	B C E B C E B C E E	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V10.7V (4.3V)
Q63 Q64 Q65 Q66	B C E B C E B C E B C E B	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V10.7V (4.3V)
Q63 Q64 Q65 Q66	B C E B C C E B C C E B C C E B C C E B C C E B C C E E B C C E E B C C E E B C C E E B C C E E E B C C E E E E	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V
Q63 Q64 Q65 Q66 Q67	B C E B C E B C E B C C E G G	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V 4.9V (2.8V) 5.0V -10.7V (4.3V) 4.5V -4.5V 8.9V
Q63 Q64 Q65 Q66	B C E B C E B C C E G S	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V
Q63 Q64 Q65 Q66 Q67	B C E B C E B C C E C C C C C C C C C C	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V 4.9V (2.8V) 5.0V -10.7V (4.3V) 4.5V -4.5V 8.9V
Q63 Q64 Q65 Q66 Q67	B C E B C E G S D D 1	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V 4.9V (2.8V) 5.0V -10.7V (4.3V) 4.5V -4.5V 8.9V
Q63 Q64 Q65 Q66 Q67	B C E B C E B C C E C C C C C C C C C C	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V 4.9V (2.8V) 5.0V -10.7V (4.3V) 4.5V -4.5V 8.9V
Q63 Q64 Q65 Q66 Q67	B C E B C E G S D D 1	4.9V (OV) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V10.7V (4.3V) 4.5V 8.9V 8.9V
Q63 Q64 Q65 Q66 Q67 Q68	B C E B C C E G C C C C C C C C C C C C C C C C	4.9V (OV) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V - 4.9V (2.6V) 5.0V10.7V (4.3V) 4.5V 8.9V 8.9V
Q63 Q64 Q65 Q66 Q67 Q68	B C E B C E G C D D 1 2	4 9V (0V) 5.0V 4.4V (SCAN ON) 0V 0.2V 4.5V 0V

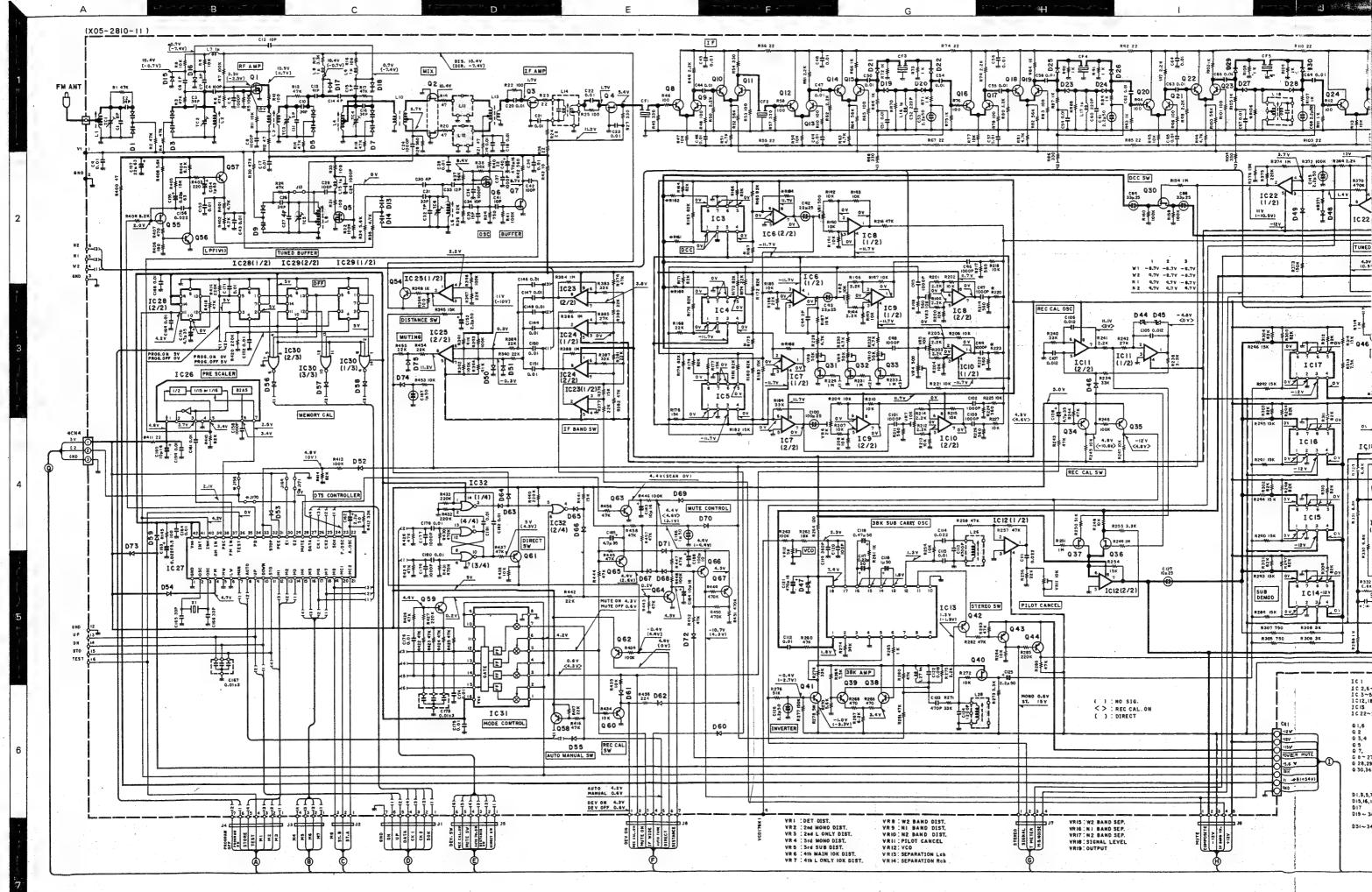
r	1 ~	F
	6	0∨
IC1	7	0∨
	8	11.8V
	1_	0V (-3.0V)
	2	
	3	0.1V
IC2	4	-12V
	5	0V (-1V)
	6	-0.6V
	7	11.3V (-10.6V
	8	12V
	1	0∨
	2	0∨
	3	-11.7V
1	4	0V
1C3~5	5	OV
,000	6	OV.
	7	0V
	8	
	1	0V
		0V
	2	0∨
	3	0∨
	4	-11.7V
IC6~10	5	0∨
	6	0V
	7	0V
	8	11.7V
	1	-4.8V <0V>
	2	
	3	0V
	4	12V
IC11	5	
	6	
	7	11.1∨ <0∨>
	8	11.7V
	1	-
	2	
	3	0∨
	4	12V
IC12	5	0∨
	6	_
ļ	7	
	8	12V
	1	1.8V
ł	2	7.54
	3	
-	4	0V
IC13	5	0.0
1013		
	6	
i	7	
1	- !	1
	8	-

	11	_
	12	1.3V
	13	1.8V
	14	1.8V
IC13	15	1.8V
ĺ	16	1.8V
		· · · · · · · · · · · · · · · · · · ·
	17	2.3V
	18	7.9V
	1	0V
	2	0V
	3	-12V
	4	0∨
IC14~17	5	0∨
	6	0∨
	7	0V
	8	0V
	1	0∨
ļ	2	OV
	3	OV
IC18~20		-11.6V
	5	ov
	6	0V
	7	0∨
	-	
	8	11.6V
	1	
	2	11V (-10.5V)
	3	1.4V
	4	3.7V
IC22	5	-12V
	6	-0.5V (-0.7V
	7	
	8	4.3V (0.5V)
	9	12V
	1	_
	2	
	3	_
	4	0∨
IC23	5	-12V
	6	
	7	3.8V
	8	
	9	121/
		12V
1004	1	12V
IC24	3	0V
-	5	-12V
	1	12V
i	2	11V [-10V]
	3	
	4	2.2V
	5	- 12V
fC25		
łC25	6	0.3V
IC25		0.3V -0.3V
łC25	6	

		(): NO SIG.
	1	4.8V
1	2	_
	3	3.7V
IC26	4	0V
	5	3.4V
	6	3.4V
	7	2.5V
	1	0V
	4	4.7V
	5	0V
	6	0∨
	22	0∨
	23	0∨
	29	0∨
IC27	30	5V
	32	4.8V (0V)
	33	4.8V (0V)
	36	0∨
	37	2.1V
	38	2.5V
	40	4.2V
	41	5V
	42	5V
	1	
	2	5V
	3	5V
		PROG. ON OV.
	4	PROG. OFF 5V
		PROG. ON 5V
	5	PROG. OFF 0V
	6	0V
	7	0∨
	8	0∨
IC28	9	5V
	10	0V
	11	4.2V
	12	5V
•	13	_
	14	5V
	1	_
	2	. 5V
	3	5V
	4	PROG. ON OV.
		PROG. OFF 5V
	5	_
	6	0∨
	7	٥٧
IC29	8	0V .
	9	-
	10	PROG. ON OV, PROG. OFF 5V
	11	5V
	12	-
	12 13	

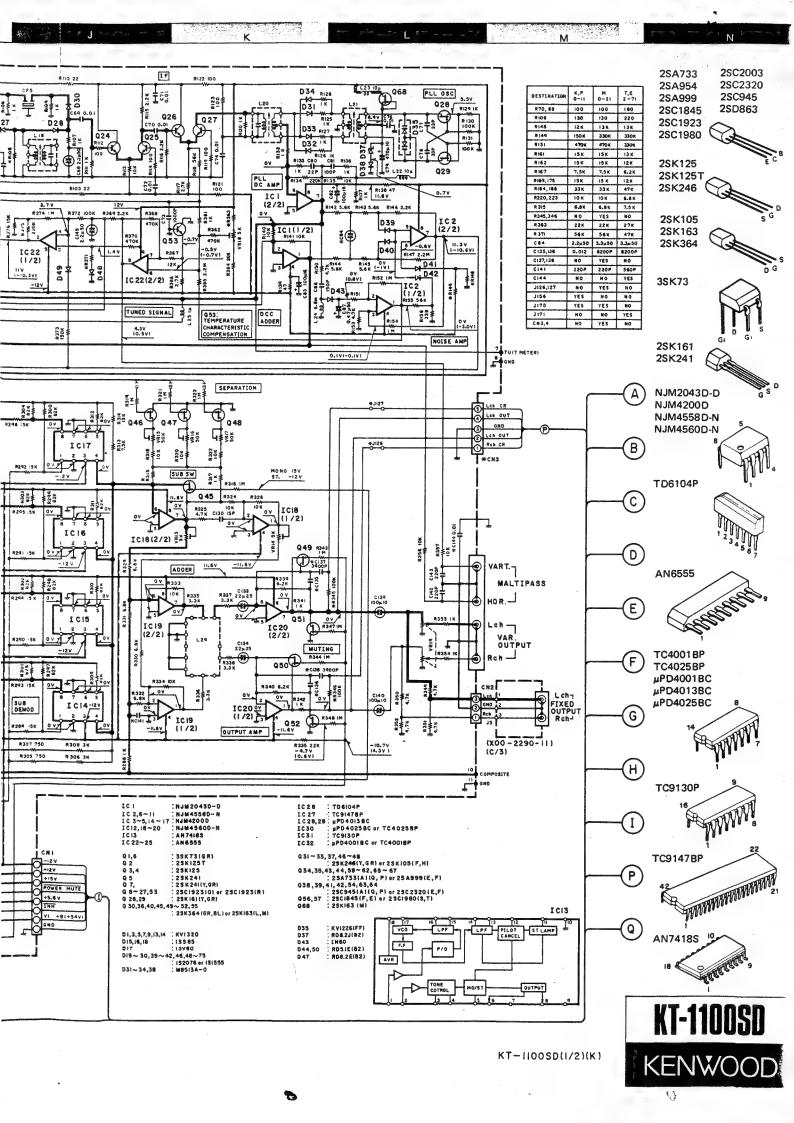
	1	5V
	2	5V
	3	5V
	4	_
	5	5V
	6	-
	7	OV
1C30	8	5V
	9	
	10	-
	11	5V
	12	_
	13	
	14	5V
	1	_
	2	4.2V
	3	0.6V.<4.3V>
	4	4.2V
	-	MUTE ON 4.3V,
	5	MUTE OFF 0.6V
	. 6	4.2V
	7	AUTO 4.2V,
	1	MANUAL 0.6V
	8	0∨
	9	4.2V
IC31	10	4.2V
	11	_
	12	
	13	_
	14	
	15	-
	16	5V
	6	0.6V <4.3V>
IC32	7	0∨
	14	E\/

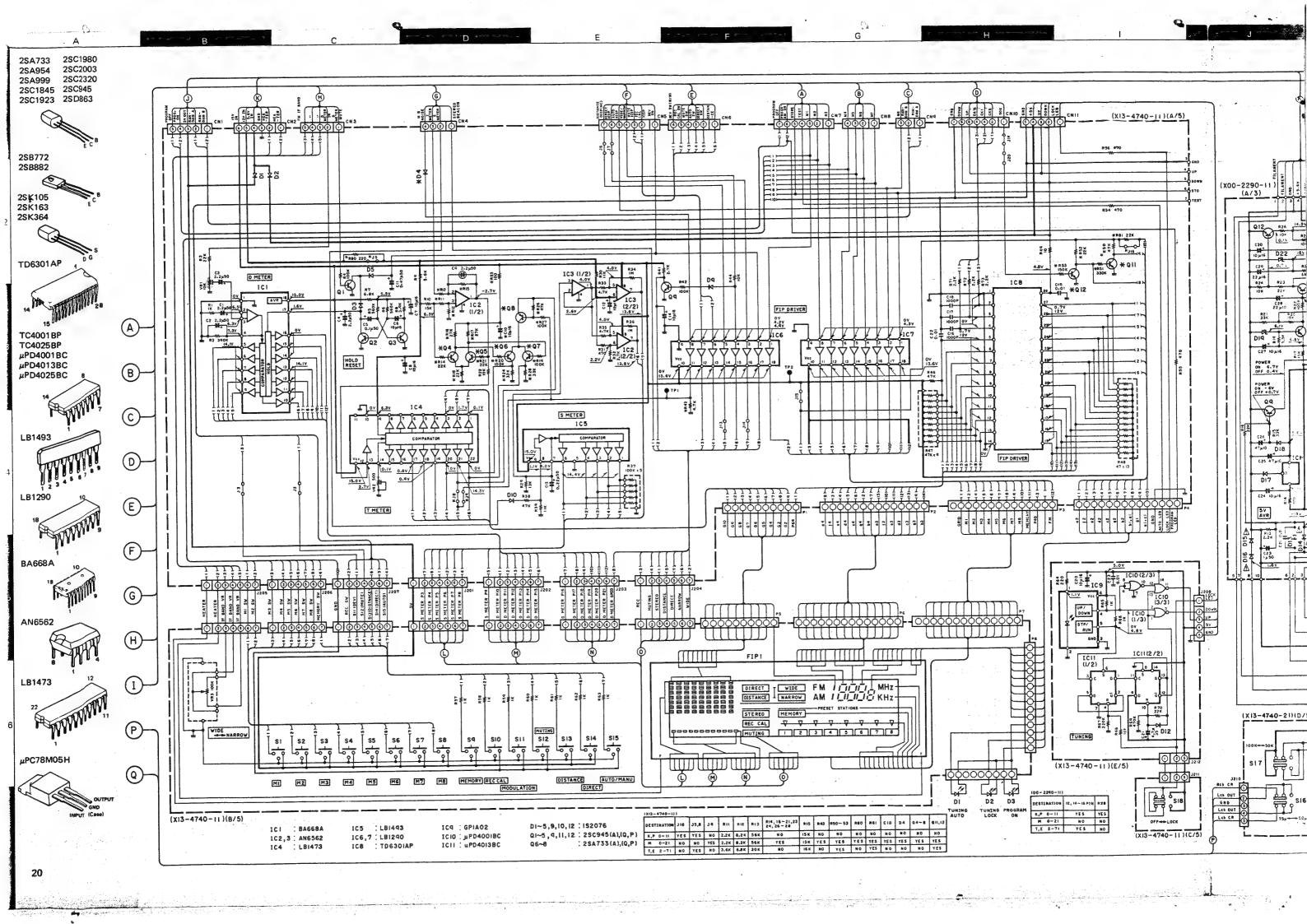
> : REC CAL. ON [] : DIRECT

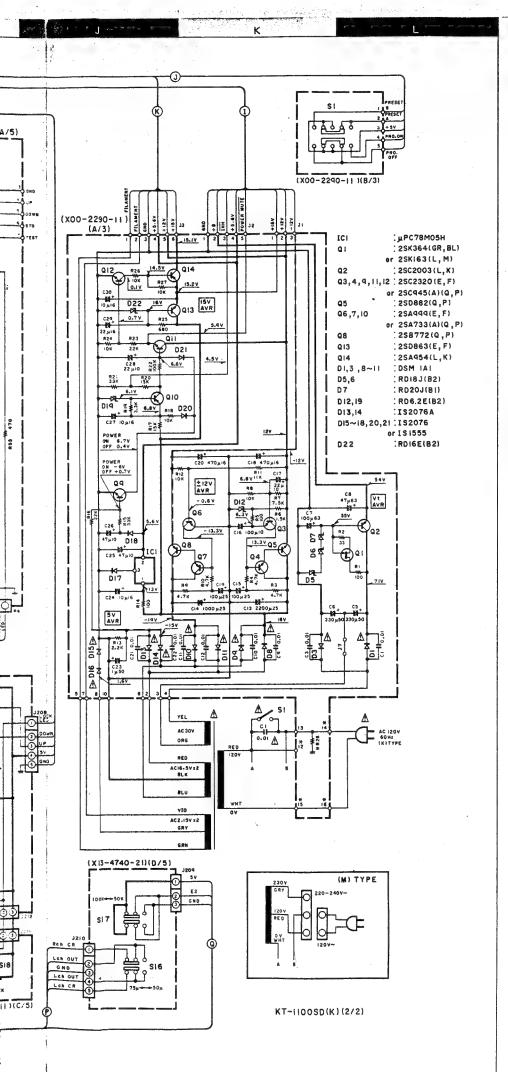


volimeter during reception of an FM broadcast signal dividual instruments or/and units. (with a signal strength of 60dB at the ANT terminal).

DC voltages are as measured with a high impedance Values may vary slightly due to variations between in-







6



SPECIFICATIONS

[FM tuner section]		
	DISTANCE	DIRECT
Usable sensitivity	10.8 d8f (0.95 µV)	25.2 dBf (5.0 µV)
50dB quieting sensitivity	(0.35 µV)	(5.0 /24)
Mono	16.2 dBf	31.2 dBf
	(1.8 µV)	$(10.0 \mu V)$
Stereo	38.1 dBf	51.2 dBf
Signal to noise ratio (85 dBf)	(22 µV)	(100 μV)
Mono	92 dB	
Stereo	86 dB	
Total harmonic distortion	WIDE	NARROW
Mono: 100 Hz	0.007%	0.02%
1,000Hz	0.004%	0.01%
50 Hz ~ 10,000 Hz	0.009%	0.04%
Stereo: 100 Hz	0.015%	0.04%
1,000 Hz		
50 Hz ~ 10.000 Hz	0.008%	0.03% 0.15%
	0.04%	
Capture ratio	1.0 dB	2.5 dB
Alternate channel selectivity (±400 kHz).	70 dB	10 0 d 8
Stereo separation		
1,000 Hz	70 dB	58 dB
50 Hz ~ 10,000 Hz	55 dB	45 d8
_ 15,000 Hz	45 dB	40 dB
Frequency response	20 Hz to 15 k	
	+0.5 dB, -0.5	dB
Spurious rejection ratio	110 dB	
Image rejection ratio	80 dB	
IF rejection ratio	110 dB	
AM suppression ratio	80 dB	
Subcarrier suppression ratio	70 dB	
Antenna impedance	75 ohms unb	
Tuning frequency range	87.5 MHz to	108 MHz
Fixed	0.6V/2.3 kΩ	
Variable	MAX 1.2V/1 k	Ω
Multipath output		
Vertical	0.05V/10kΩ	
Horizontal	0.6V/10kΩ	
[General]		
*	1101 / 60 H-	
Power requirement	120V, 60 Hz	
	(US.A. and Ca Model sold els	
	porates switch	
	modate 50/60	
	120/220-240	V
Power consumption	22W	7 5/160
Dimensions	W:440 mm (
	H:88 mm (3-	
186-1-1-A 481-A	D:326.5 mm	
Weight (Net)	4.i kg (10.2 lt)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en

ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modificit ions sans préavis. Kenwood strebt ständige, Verbesseurngen in der Ent-

Kenwood strebt ständige, Verbesseungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

- DC voltages are as measured with a high impedance voltmeter during reception of an FM broadcast signal (with a signal strength of 60dB at the ANT terminal).
- Les tensions c.c. doivent être mesir ées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60dB à la borne ANT).
- Die angegeben Gleichspannungsverte wurden mit einem hochohmigen. Voltmeter tei Empfang eines UKW-Signals (mit einer Feldstärle von 60dB am Antennenanschluß)

CAUTION: For continued safety, replay safety critical components only with manufacturer's recommended parts (refer to parts list). AIndicates safety critical components. To reduce the risk of electric shock, leakagecurrent or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



KT-1100SD

X00-2290-11

Г	Q1	G	55V
١		S	_
		D	
		В	55V
	Q2	С	71V
L		E	54V
		В	6.8V
ı	Q3	С	13.3V
L		Ε	6.3V
Г		В	13.3V
1	Q4	С	18∨
L		E	_
		В	_
	Q5	С	18V
		E	12V
		8	-0.6V
	Q6	С	-13.3V
L		Ε	0V
Г		В	-13.3V
İ	Q7	С	-19V
L		Е	***
Г		В	_
l	Q8	С	-19V
		E	-12V
Г			-6V (POWER ON),
		В	0.7V (OFF)
	Q9		6.7V (POWER ON),
		С	0.4V (OFF)
		E	ov
Г		В	6.1V
(210	С	-
L		E	6.8V
		В	6.6V
	211	С	12V
L		Е	5.9V
		В	0.7V
C	212	С	0.1V
		E	0V
		В	16V
C	213	С	18V
		Ε	15.2V
		В	14.5V
C	14	С	15.1V
		Е	15.2V
		0	5.6V
ì	C1	G	_
		1	13V

X13-4740-11

X13-4740-11					
	В	T			
02	C	1.6V			
	Ε	0V			
	В				
06,7	C	OV			
1	E				
	В	 			
Q8	c				
40	E	14.3V			
	1	0V			
i	2	6.5V			
	_				
	4	6.3V			
	-	7.3V			
	5	14.1V			
Ì	6	14.1V			
	7	14.1V			
	8	14.1V			
IC1	9	14.1V			
	10	14.1V			
	11	14.1V			
	12	14.1V			
	13	14.1V			
	14	0∨			
	15	0V			
	16	0V			
	17	1.6V			
	18	15.0V			
	1	-2.7V			
	2	_			
	3	_			
	4	OV			
iC2	5	4.0V			
	6	2.2V			
	7	13.8V			
	В	15.0V			
	1	4.0V			
	2	4.0V			
	3	4.0V			
	4	OV			
IC3	5	4.0V			
	6	2.6V			
	7	13.8V			
	8	15.0V			
	1	0.1V			
ł	2	1.7V			
	3	0V			
}	4				
IC4	5				
104	6				
-					
ŀ	7				
	8				
1	9	6.3V			
	10	0V			

11 12 15.0V 13 2.7V 14 0.1V 15 16 16 17 0.8V 18 0.8V	
13 2.7V 14 0.1V 15 - 16 - 17 0.8V	
14 0.1V 15 - 1C4 16 - 17 0.8V	
14 0.1V 15 - 16 - 17 0.8V	
15 — 16 — 17 0.8V	
17 0.8V	
17 0.8V	
19 0.9V	
20 0V	_
21 14.3V	
22 0V	
1 14.4V	
2 14.4V	
3 14.4V	
4 14.4V	-
IC5 5 0V	
6 14.4V	
7 4.0V	
8 1.1V	
9 15.0V	_
1 0V.4.2V.4.9	9V
2 0V, 4.2V, 4.5	
3 0V.4.2V, 4.9	
4 0V, 4.2V, 4.9	
5 0V, 4.2V, 4.9	
6 0V, 4.2V, 4.9	
7 0V, 4.2V, 4.9	
8 0V.4.2V.4.9	
IC6 9 0V	
10 0V, 13.6V	
11 0V, 13.6V	-
12 0V, 13.6V	
- 13 0V, 13.6V	
14 0V, 13.6V	
15 ; 0V, 13.6V	
16 0V, 13.6V	
17 : 0V, 13.6V	
18 0V, 13.6V	
1 0V, 4.3V	
2 0V, 4.3V	
3 0V.4.3V	
3 0V, 4.3V 4 0V, 4.3V	
4 0V, 4.3V 5 0V, 4.3V	
4 0V, 4.3V 5 0V, 4.3V 6 0V, 4.3V	
4 0V, 4.3V 5 0V, 4.3V 6 0V, 4.3V	\exists
4 0V, 4.3V 5 0V, 4.3V 6 0V, 4.3V	
4 0V, 4.3V 5 0V, 4.3V 6 0V, 4.3V 7 0V, 4.3V	
4	
4	
4	
4	
4	
4	
4	
4	

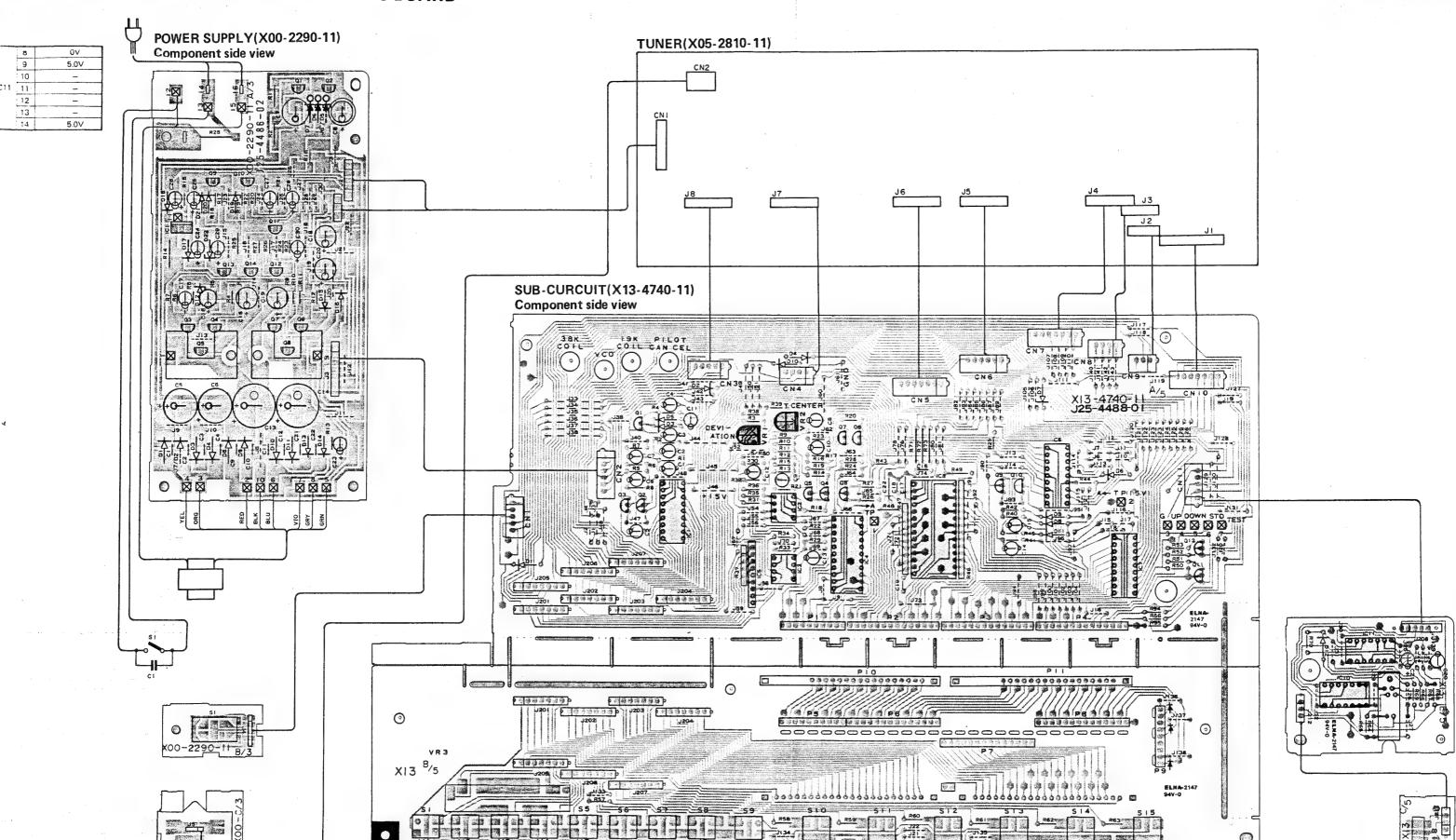
1	1	OV
1	2	0V
	3	0V
ĺ	4	0V
1	5	0.7V, 12V
1	6	0.7V, 12V
	-	0.7V, 12V
IC8	8	
1 100	-	0.7V, 12V
	9	0.7V, 12V
	10	0.7V, 12V
	11	0.7V, 12V
	12	0.7V, 12V
	13	0.7V, 12V
	14	0V
	15	0.7V, 12V
1	16	0.7V, 12V
	17	0.7V, 12V
	18	0.7V, 12V
	19	
	20	
1	21	0.7V, 12V
	-	0.77,127
	-	
1	23	
	24	
	25	0.7V, 12V
İ	26	0.7V, 12V
	27	0.7V, 12V
	28	4.8V
	1	1.1V
	2	0V
		0∨
ī	3	0.4
IC9	3 4	
1C9	4	0V, 4.8V
IC9	5	0V, 4.8V 0V, 4.8V
IC9	4 5 6	0V, 4.8V
IC9	4 5 6	0V, 48V 0V, 48V 5.0V
IC9	4 5 6 1 2	0V, 4.8V 0V, 4.8V
IC9	4 5 6 1 2 3	0V, 48V 0V, 48V 5.0V
IC9	4 5 6 1 2 3 4	0V, 48V 0V, 48V 5.0V
IC9	4 5 6 1 2 3 4 5	0V, 48V 0V, 48V 5.0V
	4 5 6 1 2 3 4 5	0V, 48V 0V, 48V 5.0V - 0V, 4.8V
IC9	4 5 6 1 2 3 4 5 6	0V, 48V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 8	0V, 48V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 8	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 8 9	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 8 9 10	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 8 9 10	0V, 48V 0V, 48V 5 0V 0V, 4.8V
	4 5 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14	0V, 4.8V 0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 1	0V, 48V 0V, 48V 5 0V 0V, 4.8V
	4 5 6 1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 1 12	0V, 4.8V 5.0V
	4 5 6 1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 11 12 13 14 11 12 13	0V, 48V 0V, 48V 5 0V
IC10	4 5 6 1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 1 12	0V, 4.8V 5.0V

	8	0V
	9	5.0V
	10	_
IC11	11	-
	12	-
	13	
	14	5.0V

KT-1100SD KT-1100SD



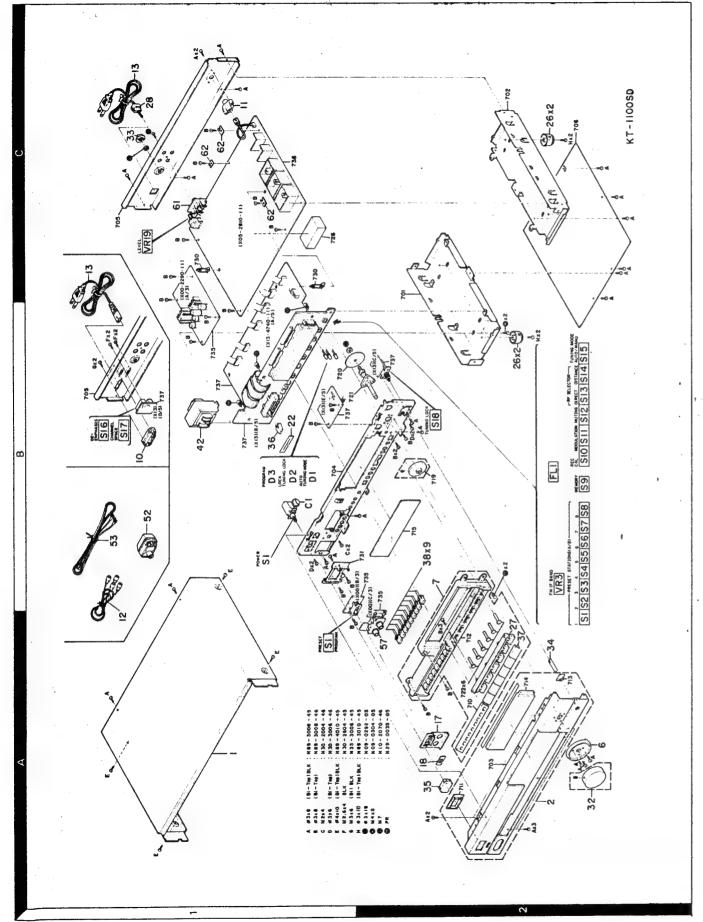
PC BOARD



KT-1100SD(2/2)



EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.



PARTS LIST

X New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

	Ref. No.	Address	New	Parts No.	Description		Re- marks
	参照者号	位 置	新	部品番号	部品名/規格		備考
				КТ	T-1100SD		
	1 2	1A 2A	*	A01-1342-02 A20-4164-02	METALLIC CABINET PANEL ASSY		
	6 7 - -	2A 2A	* *	B07-1314-04 B07-1330-02 B46-0092-03 B46-0122-03 B50-5309-00	ESCUTCHE®N(TUNING) ESCUTCHE®N ASSY WARRANTY CARD WARRANTY CARD INSTRUCTI®N MANUAL(ENGLISH)	K	
	- - - -		* *	B50-5310-00 B50-5311-00 B50-5312-00 B58-0245-23 B58-0269-04	INSTRUCTION MANUAL(FRENCH) INSTRUCTION MANUAL(SPANISH) INSTRUCTION MANUAL(G,D,I) CAUTION CARD CAUTION CARD	ME M E K	
	D1 -3	2C		B30-0431-05	LED(LN21CPH)AUT0,LOCK,PROGRAM		
Δ	C1 C1	1B 1B		C91-0023-05 C91-0647-05	CERAMIC 0.01UF AC25DV CERAMIC 0.01UF P	M KE	
∆	10 11 12 13 13	1B 1C 1A 1C 1C		E03-0102-15 E04-0006-05 E30-0505-05 E30-0181-05 E30-0459-05	AC INLET RF COAXIAL CABLE RECEPTACLE AUDIO CORD AC POWER CORD AC POWER CORD	M K E	,
Δ	13	1B		E30-1305-15	AC POWER CORD (INLET)	M	
	17 18	2A 2A	*	F19-0338-04 F19-0349-04	BLIND PLATE(PROG/PRE,FIXED OUT BLIND PLATE(PROG/PRESET SW)		,
	22	18		G10-0065-04	NON-WOVEN FABRIC(FM IF BAND)		·
	111		*	H01-5292-04 H10-1743-02 H25-0078-04 H25-0181-04 H25-0224-Q4	ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (235X315) PROTECTION BAG (150X260X0.05) PROTECTION BAG (800X400)		
4	26 27 28	2B,2C 2A 1C	*	J02-0127-05 J19-2148-03 J42-0083-05 J61-0307-05	F00T H0LDER P0WER CORD BUSHING WIRE BAND	KE	
	32 33 34 35 36	2A 1C 2A 2A 1B	*	K21-0405-04 K23-0351-04 K27-0917-04 K27-1141-04 K27-1292-04	KNOB TUNING KNOB QUTPUT LEVEL KNOB(BUTTON) TUNING LOCK KNOB(BUTTON) POWER KNOB(BUTTON) FM IF BAND		
	37 38	2A 2B	*	K27-1293-03 K29-1588-04	KNOB(BUTTON) FUNCTION SW KNOB(BTN) 1,2,3,4,5,6,7,8,MEMO		
7	42 42 42	1B 1B 1B	* *	L01-3691-05 L01-3692-05 L01-3694-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	K E M	
	J K L			N09-0292-05 N09-0304-05 N10-2070-46 N29-0035-05	STEPPED SCREW (Ø3X19) TAPTITE SCREW (M4XB) HEXAGØN NUT (M7) PUSH RIVET (Ø3.5X5.5)	E	
7	S1	1B		S40-1067-05	PUSH SWITCH (POWER TYPE)		

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KT-1100SD

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参照番号	位 置	Parts 新	部品番号	部品	名/規	格	nation 仕 向	mark 備考
52 53	1B 1B		T90-0136-05 T90-0132-05	ANTENNA ADAP T TYPE ANTEN				
			POWER SUP	PLY (X00-2290		····		
C1 C3 C5 ,6 C7 C8			CK45FE2H103P CK45FE2H103P CE04FW1H331M CE04FW1J101M CE04FW1J470M	CERAMIC CERAMIC ELECTRO ELECTRO ELECTRO	0. 010UF 0. 010UF 330UF 100UF 47UF			
C9 -12 C13 C14 C15 C16			CK45FF1H103Z CE04FW1E222M CE04FW1E102M CE04FW1E101M CE04FW1A101M	CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO	0. 010UF 2200UF 1000UF 100UF 100UF	Z 25WV 25WV 25WV 10WV		White the particular with the same and the s
C17 C18 C19 C20 C21 ,22			CE04FW1A220M CE04FW1C471M CE04FW1E101M CE04FW1C471M CK45FF1H103Z	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	22UF 470UF 100UF 470UF 0. 010UF	10WV 16WV 25WV 16WV Z		
C23 C24 C25 ,26 C27 C28			CE04FW1H010M CE04FW1C100M CE04FW1A470M CE04FW1C100M CE04FW1A220M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	1. OUF 10UF 47UF 10UF 22UF	50WV 16WV 10WV 16WV 10WV		
C29 C30			CE04FW1C220M CE04FW1C100M	ELECTRO ELECTRO	22UF 10UF	16WV 16WV		
57	2A		E13-0220-05	PHONO JACK	(2P)			
R1 R1 R2 R14 R25		*	RD14AB2E101J R92-022B-05 RD14AB2E330J RS14DB3A101J RD14AB2E6B1J	FL-PROOF RD FUSE RESIST FL-PROOF RD FL-PROOF RS FL-PROOF RD	100 100 33 100 680	J 1/4W G 1/4W J 1/4W J 1W J 1/4W	KE KE	
R28			R92-0173-05	RC -	2. 2M	M 1/2W	κ	
S1	1A		S31-2062-05	SLIDE SWITCH	(PROGR	AM/PRESET)		
D1 D3 D5 ,6 D7 D8 -11			DSM1A1 DSM1A1 RD18J(B2) RD2OJ(B1) DSM1A1	- DIODE DIODE ZENER DIODE ZENER DIODE DIODE				
D12 D13 ,14 D15 -18 D15 -18 D19			RD6. 2E(B2) 1S2076A 1S1555 1S2076 RD6. 2E(B2)	ZENER DINDE DINDE DINDE DINDE ZENER DINDE				
D20 .21 D20 .21 D22 IC1 Q1			1\$1555 1\$2076 RD16E(B2) UPC78M05H 2SK163(L,M)	DIØDE DIØDE ZENER DIØDE IC(VØLTAGE RI FET	EGULAT®R:) +5V		
Q1 Q2 Q3 ;4 Q3 ;4			2SK364(GR,BL) 2SC2003(L,K) 2SC2320(E,F) 2SC945(A)(Q,P)	FET TRANSISTOR TRANSISTOR TRANSISTOR				

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05 06 .7 06 .7 08 09			2SD882(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SB772(Q,P) 2SC2320(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
09 010 010 011 •12 011 •12			2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
Q13 Q14			2SD863(E,F) 2SA954(L,K)	TRANSISTOR TRANSISTOR				
			TUNER (X05-2810-11)				
C1 C2 •3 C4 C5 C6		*	CC45FSH1H080D CC45FPH1H390J CC45FSL1H101J CK45FB1H102K CC45FSH1H020C	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	8. OPF 39PF 100PF 1000PF 2. OPF	D J K C		-
C7 C8 C9 C10 C11		*	CC45FSH1H030C CK45FB1H102K CK45FF1H103Z CC45FPH1H390J CC45FSH1H050C	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	3. OPF 1000PF 0. 010UF 39PF 5. OPF	C K Z J C		
C12 C13 C14 C15 C16		* * *	CC45FSH1H100D C91-0086-05 CC45FSH1H040C CC45FSH1H050C CC45FPH1H390J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	10PF 0. 91PF 4. 0PF 5. 0PF 39PF	D 500WV C C J		
C17 -23 C24 C26 C27 C28		*	CK45FF1H103Z CK45FB1H102K CC45FPH1H390J CC45FTH1H040C CC45FSL1H101J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	0. 010UF 1000PF 39PF 4. 0PF 100PF	Z K J C		
C29 C30 C31 C32 C33		*	CK45FB1H102K CC45FSL1H040C CC45FPH1H330J CC45FTH1H070D CC45FTH1H120J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	1000PF 4. 0PF 33PF 7. 0PF 12PF	K C J D		
C34 C35 C36 ,37 C38 C39		*	CC45FTH1H100D CC45FTH1H150J CK45FB1H102K CK45FF1H103Z C91-0083-05	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	10PF 15PF 1000PF 0. 010UF 0. 01UF	D J K Z N		
C40 C41 : C42 C43 :44 C45 :46			CE04FW1C471M CC45FSL1H100D CC45FSL1H101J CK45FF1H103Z C91-0083-05	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	470UF 10PF 100PF 0. 010UF 0. 01UF	16WV D J Z N		
C47 ,48 C49 C50 ,51 C52 C53			CK45FF1H103Z C91-00B3-05 CK45FF1H103Z CC45FSL1H221J CE04HW1H2R2M	CERAMIC CERAMIC CERAMIC CERAMIC NP-ELEC	0. 010UF 0. 01UF 0. 010UF 220PF 2. 2UF	Z N Z J 50WV		
C54 -56			CK45FF1H103Z	CERAMIC	0.010UF	Z		

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参照番号	位置	Parts 新	部品番号		sti-Re tion mar 向備
C141 C142,143 C144 C145 C146-151		*	CQO9FS1H561JY8 CC45FSL1H221J CK45F1H1O3Z CEO4HW1H2R2M CK45FF1H1O3Z	POLYSTY 560PF J E CERAMIC 220PF J CERAMIC 0.010UF Z E NP-ELEC 2.2UF 50WV CERAMIC 0.010UF Z	
C152 C153 C154 C155 C156		*	CE04FW1H2R2M CK45FF1H103Z CE04FW1J010M CE04GW1HR22M CF92FV1H223J	ELECTRO 2. 2UF 50WV CERAMIC 0. 010UF Z ELECTRO 1. 0UF 63WV LL-ELEC 0. 22UF 50WV MF 0. 022UF J	
C157 C158 C159 C160 C161			CE04FW1J220M CK45FB1H102K CK45FF1H103Z CE04FW1C100M CK45FF1H103Z	ELECTRN 22UF 63WV CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTRN 10UF 16WV CERAMIC 0.010UF Z	
C162 C163 C164 C165,166 C168,169			CE04FW1H2R2M C91-0770-05 C91-0083-05 CC45FCH1H330J CK45FF1H103Z	ELECTRO 2. 2UF 50WV ELECTRO 22000UF 5. 5WV CERAMIC 0. 01UF N CERAMIC 33PF J CERAMIC 0. 010UF Z	
C170 C171,172 C174-176 C177 C178			CE04FW1V4R7M CK45FF1H103Z CK45FF1H103Z CK45FB1H102K CK45FF1H103Z	ELECTR0 4.7UF 35WV CERAMIC 0.010UF Z CERAMIC 0.010UF Z CERAMIC 1000PF K CERAMIC 0.010UF Z	
C179 C180-182 C183,184 C185 C186,187			CK4SFB1H102K CK4SFF1H103Z CE04FW1C100M CE04FW1V4R7M CE04HW1H010M	CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTR0 10UF 16WV ELECTR0 4.7UF 35WV NP-ELEC 1.0UF 50WV	
C188 TC1 TC2 TC3 -5 TC6			CE04FW1A101M C05-0302-05 C05-0301-05 C05-0302-05 C05-0301-05	ELECTRO 100UF 10WV CERAMIC TRIMMER CAPACITOR(11PF CERAMIC TRIMMER CAPACITOR(7PF) CERAMIC TRIMMER CAPACITOR(11PF CERAMIC TRIMMER CAPACITOR(7PF)	
61 62	1C 1C		E13-0432-05 E23-0125-05	PHONO JACK (4P) TERMINAL	
CF1 -5 CF1 -5 _1 ,2 L3 _4			_72-0190-05 L72-0505-05 _31-0495-05 L31-0492-05 _31-0495-05	CERAMIC FILTER CERAMIC FILTER (MP3H15-A) FM-RF COIL FM-RF COIL FM-RF COIL	
.5 .6 .7 -9 .10		L	.31-0501-05 .32-0270-05 .40-1092-14 .39-0098-05 .30-0381-05	FM-RF COIL FM OSCILLATING COIL SMALL FIXED INDUCTOR(1.0UH,K) MATCHING COIL FM IFT	
.13 .14 .15 -17 .18 .20		L	.39-0098-05 .30-0416-05 .40-1092-14 .30-0416-05 .30-0416-05	MATCHING COIL FM IFT SMALL FIXED INDUCTOR(1.OUH,K) FM IFT FM IFT	
21 22 ,23			32-0294-05 40-1001-14	FM 0SCILLATING C0IL SMALL FIXED INDUCTOR(10UH,K)	

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C57 C58 ,59 C60 C61 C62 -64			C91-0083-05 CK45FF1H103Z CC45FSL1H221J CE04HW1H2R2M CK45FF1H103Z	CERAMIC CERAMIC CERAMIC NP-ELEC CERAMIC	0. 01UF 0. 010UF 220PF 2. 2UF 0. 010UF	N Z J SOWV Z		
C65 C66 ,67 C68 C69 C70			C91-0083-05 CK45FF1H103Z CE04HW1H2R2M CK45FF1H103Z C91-0083-05	CERAMIC CERAMIC NP-ELEC CERAMIC CERAMIC	0. 01UF 0. 010UF 2. 2UF 0. 010UF 0. 01UF	50WV		
C71 ,72 C73 C74 C76 C77 ,78			CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CK45FF1H103Z CC45FCH1H330J	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	0. 010UF 1000PF 0. 010UF 0. 010UF 33PF	Z K Z Z J		
C79 C80 C81 C82 ,83 C84			CEO4FW1A471M CC45FSL1H22OJ CQO9FS1H1O1J CEO4FW1C1O1M CEO4HW1H2R2M	ELECTRO CERAMIC POLYSTY ELECTRO NP-ELEC	470UF 22PF 100PF 100UF 2. 2UF	10WV J J 16WV 50WV	K	
C84 C86 C87 C88 +89 C92 +93	A factoring and the factoring	* *	CE04HW1H3R3M CQ09FS1H151J CE04FW1HR47M CE04HW1E33OM CE04HW1E22OM	NP-ELEC PØLYSTY ELECTRØ NP-ELEC NP-ELEC	3. 3UF 150PF 0. 47UF 33UF 22UF	50WV J 50WV 25WV 25WV	ME	
C94 C95 -99 C100 C101-103 C105-107			CC45FSL1H020C CF92FV1H102J CE04HW1E100M CF92FV1H102J CF92FV1H123J	CERAMIC MF NP-ELEC MF MF	2. OPF 1000PF 10UF 1000PF 0. 012UF	C J 25WV J J		
C108 C111 C112 C113 C114			CEO4FW1V4R7M CF92FV1H223J CF92FV1H103J CQO9FS1H472JY0 CF92FV1H223J	ELECTRO MF MF POLYSTY MF	4. 7UF 0. 022UF 0. 010UF 4700PF 0. 022UF	35WV J J J		
C115 C116 C117 C118 C119			CF92FV1H1O3J CEO4GW1HO1OM - CEO4GW1HR22M CEO4GW1HR47M CQO9FS1H361JY0	MF LL-ELEC LL-ELEC LL-ELEC POLYSTY	0. 010UF 1. 0UF 0. 22UF 0. 47UF 360PF	J 50WV 50WV 50WV J		
C120 C121 C122 C123 C124			CC45FTH1H101J CE04FW1A471M CF92FV1H183J CQ09FS1H471JY0 CQ09FS1H122JY0	CERAMIC ELECTRO MF POLYSTY POLYSTY	100PF 470UF 0. 018UF 470PF 1200PF	J 10WV J J J		
C125 C126 C127 C130 C133,134		*	CEO4FW1H2R2M CEO4HW1H2R2M CEO4HW1E100M CC45FSL1H15OJ CEO4HW1E22OM	ELECTR® NP-ELEC NP-ELEC CERAMIC NP-ELEC	2. 2UF 2. 2UF 10UF 15PF 22UF	50WV 50WV 25WV J 25WV		
C135,136 C135,136 C137,138 C139,140 C141		*	CF92FV1H123J CF92FV1H822J CF92FV1H392J CE04HW1A1D1M CQO9FS1H221JY0	MF MF MF NP-ELEC POLYSTY	0.012UF 8200PF 3900PF 100UF 220PF	J J J 10₩V J	K ME M	

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L24 L25 L26 L27 L28		*	L40-6825-29 L40-1092-14 L35-0059-05 L40-1025-29 L35-0059-05	SMALL FIXED INDUCTOR(6.8MH,J) SMALL FIXED INDUCTOR(1.0UH,K) MPX COIL SMALL FIXED INDUCTOR(1.0MH,J) MPX COIL	
L29 X1			L79-0107-05 L77-0578-05	LC FILTER CRYSTAL RESONATOR (7.2MHZ)	
C167 C173 R12 R19 -21 R22			R90-0544-05 R90-0544-05 RD14AB2E470J RD14AB2E470J RD14AB2E101J	MULTI-COMP 0.01UF X3 MULTI-COMP 0.01UF X3 FL-PROOF RD 47 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RD 100 J 1/4W	KE KE KE
R23 ,24 R25 R26 R27 R33			RD14AB2E22OJ RD14AB2E101J RD14AB2E22OJ RD14AB2E331J RD14AB2E101J	FL-PR00F RD 22 ' J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 330 J 1/4W FL-PR00F RD 100 J 1/4W	KE KE KE KE
R40 R43 R55 ,56 R67 R68			RD14AB2E220J RD14AB2E100J RD14AB2E220J RD14AB2E220J RD14AB2E331J	FL-PR00F RD 22 J 1/4W FL-PR00F RD 10 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 330 J 1/4W	KE KE KE KE
R74 R85 R86 R92 R103			RD14AB2E220J RD14AB2E220J RD14AB2E331J RD14AB2E220J RD14AB2E220J	FL-PR00F RD 22 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 330 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 22 J 1/4W	KE KE KE KE
R104 R110 R121-123 R138,139 R264		. *	RD14AB2E331J RD14AB2E220J RD14AB2E101J RD14AB2E470J RD14AB2E131J	FL-PR00F RD 330 J 1/4W FL-PR00F RD 22 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 47 J 1/4W FL-PR00F RD 130 J 1/4W	KE KE KE KE
R399 R400 R411 VR1 VR2 ,3			RD14AB2E101J RD14AB2E470J RD14AB2E220J R12-0306-05 R12-3312-05	FL-PR00F RD 100 J 1/4W FL-PR00F RD 47 J 1/4W FL-PR00F RD 22 J 1/4W TRIMMING P0T(500)DISTORTION TRIMMING P0T(10K)DISTORTION	KE KE KE
VR4 VR5 VR6 VR7 VR8 -10			R12-0306-05 R12-3312-05 R12-1313-05 R12-3312-05 R12-4306-05	TRIMMING POT(500)DISTORTION TRIMMING POT(10K)DISTORTION TRIMMING POT(2K) DISTORTION TRIMMING POT(10K)DISTORTION TRIMMING POT(50K)DISTORTION	
VR11 VR12-14 VR15-17 VR18 VR19	10		R12-3312-05 R12-2305-05 R12-4306-05 R12-2305-05 R06-2012-05	TRIMMING POT(10K)PILOT CANCEL TRIMMING POT(5K)VCO,SEPARATION TRIMMING POT(50K)SEPARATION TRIMMING POT(5K) SIGNAL LEVEL POTENTIOMETER(5KX2)OUTPUT LEV	
D1 D3 D5 D7 D9		* * * * * *	KV1320-7 KV1320-7 KV1320-7 KV1320-7 KV1320-7	VARIABLE CAPACITANCE DINDE VARIABLE CAPACITANCE DINDE VARIABLE CAPACITANCE DINDE VARIABLE CAPACITANCE DINDE VARIABLE CAPACITANCE DINDE	
D13 ,14 D15 ,16		*	KV1320-7 1SS85	VARIABLE CAPACITANCE DINDE DINDE	

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D17 D18 D19 -13 D19 -30 D31 -34		*	15V80 15S85 151555 152076 M8513A-0	DIØDE DIØDE DIØDE DIØDE VARISTØR		
D35 D37 D38 D39 -42 D39 -42			KV1226(EF) RDB. 2J(B2) M8513A-O 1S1555 1S2076	VARIABLE CAPACITANCE DIQUE ZENER DIQUE VARISTOR DIQUE DIQUE		
D43 D44 ,45 D46 D46 D47			1N60 RDS. 1E(B2) 1S1555 1S2076 RDB. 2E(B2)	DIODE ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D48 -75 D48 -75 IC1 IC2 IC3 -5			1S1555 1S2076 NJM2043D-D NJM4558D-N NJM4200D	DIBDE DIBDE IC(BP AMP) X2 IC(BP AMP) X2 IC(BP AMP) X2 IC(QUARTER-SQUARE MULTIPLIER)		
IC6 -11 IC12 IC13 IC14-17 IC18-20		*	NJM4558D-N NJM4560D-N AN7418S NJM4200D NJM4560D-N	IC(0P AMP) X2 IC(0P AMP) X2 IC(FM MPX) IC(QUARTER-SQUARE MULTIPLIER) IC(0P AMP) X2		-
IC22-25 IC26 IC27 IC28,29 IC30			AN6555 TD6104P TC9147BP UPD4013BC TC4025BP	IC(0P AMP) X2 IC(PRE SCALER) IC(DIGITAL TUNING SYSTEM) IC(D FLIP-FL0P) X2 IC(N0R) X3	-	
IC30 IC31 IC32 IC32 Q1			UPD4025BC ' TC9130P TC4001BP UPD4001BC 3SK73(GR)	IC(NOR) X3 IC(4CH TOUCH SW) IC(NOR) X4 IC(NOR) X4 FET		
02 03 ,4 05 06 07			2SK125T 25K125 2SK241(Y,GR) 3SK73(GR) 2SK241(Y,GR)	DUAL FET FET FET FET FET		
08 -27 08 -27 028 ,29 030 030		*	2SC1923(0) 2SC1923(R) 2SK161(Y,GR) 2SK163(L,M) 2SK364(GR,BL)	TRANSISTOR TRANSISTOR FET FET FET		
031 -33 031 -33 034 ,35 034 ,35 036			25K105(F,H) 25K246(Y,GR) 25A733(A)(Q,P) 25A999(E,F) 25K163(L,M)	FET FET TRANSISTOR TRANSISTOR FET		
036 037 037 038 ,39 038 ,39		*	25K364 (GR.BL) 25K105(F.H) 25K246(Y.GR) 25C2320(E.F) 25C945(A)(Q.P)	FET FET FET TRANSISTØR TRANSISTØR		

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Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address		Parts No.	Description		Re
参照番号	位置	Parts #	部品番号	部品名/規格		mar 備i
040 040 041 ,42 041 ,42 043 ,44		*	2SK163(L,M) 2SK364(GR,BL) 2SC2320(E,F) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	FET FET TRANSISTØR TRANSISTØR TRANSISTØR		
Q43 ,44 Q45 Q45 Q46 -48 Q46 -48		*	25A999(E,F) 25K163(L,M) 25K364(GR,BL) 25K105(F,H) 25K246(Y,GR)	TRANSISTOR FET FET FET FET		
049 -52 049 -52 053 053 054		*	2SK163(L,M) 2SK364(GR,BL) 2SC1923(0) 2SC1923(R) 2SC2320(E,F)	FET FET TRANSISTØR TRANSISTØR TRANSISTØR		
Q54 Q55 Q55 Q56 ,57 Q56 ,57		*	2SC945(A)(Q,P) 2SK163(L,M) 2SK364(GR,BL) 2SC1845(F,E) 2SC1980(S,T)	TRANSISTOR FET FET TRANSISTOR TRANSISTOR		
Q58 -62 Q58 -62 Q63 ,64 Q63 ,64 Q65 -67			2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q65 -67 Q68			2SA999(E,F) 2SK163(M)	TRANSISTOR FET		
			SUB-CURCU	IT (X13-4740-11)		
C1 -4 C5 C6 -8 C9 C10			CE04FW1H2R2M CE04FW1H0R1M CE04FW1C100M CE04HW1H2R2M CE04FW1C100M	ELECTR® 2, 2UF 50WV ELECTR® 0, 1UF 50WV ELECTR® 10UF 16WV NP-ELEC 2, 2UF 50WV ELECTR® 10UF 16WV	M	
C11 C12 C13 C14 C16			CE04FW1HR47M CE04FW1C100M CE04FW1HR22M CE04FW1C100M CK45FB1H102K	ELECTR® 0.47UF 50WV ELECTR® 10UF 16WV ELECTR® 0.22UF 50WV ELECTR® 10UF 16WV CERAMIC 1000PF K		
C17 C18 C19 C20 C21			C91-0757-05 CK45FB1H102K CK45FF1H103Z CE04FW1C100M CE04FW1V4R7M	CERAMIC 0.001UF K CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTR® 10UF 16WV ELECTR® 4.7UF 35WV		
C22			C91-0083-05	CERAMIC 0.01UF N		
R37 R47 R48 R49 VR1			R90-0203-05 R90-0193-05 R90-0192-05 RD14AB2E100J R12-3312-05	MULTI-COMP 100KX5 J 1/6W MULTI-COMP 47KX9 J 1/6W MULTI-COMP 47KX13 J 1/6W FL-PROOF RD 10 J 1/4W TRIMMING POT (10K) DEVIATION	KE	·
VR2 VR3	10	*	R12-0306-05 R13-5052-05	TRIMMING POT (500) T-S DISPLAY POTENTIOMETER(100K)FM IF BAND		
S1 -15 S16 ,17	2C 1B		S40-1085-05 S31-2072-05	PUSH SW (1,2,3,4,5,6,7,8,MEM) SLIDE SWITCH (DE-ENP,CH SPACE)	1 1	

P. Conside

E: Scandinavia & Europe H:Audio Club K: USA

S: South Africa T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

KT-1100SD KT-1100SD

PARTS LIST

Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Ref. No.	Address	1	Parts No.	Description	Desti-	Re-
参照番号	位置	Parts 新	部品番号	部品名/規格		mark 備考
S18	28		540-2122-05	PUSH SWITCH (TUNING LOCK)		
PH9		*	T95-0024-05	NPTN ISNLATNR(GP-1A02)		
D1 -3 D1 -3 D1 -5 D5			1\$1555 1\$2076 1\$2076 1\$1555 1\$2076	DIODE DIODE DIODE DIODE DIODE	KE M	
D9 ,10 D9 ,10 D12 D12 FL1	10	*	1S1555 1S2076 1S1555 1S2076 CP5185GR	DINDE DINDE DINDE DINDE DINDE FLUNRESCENT INDICATOR TUBE		
IC1 IC2 ,3 IC4 IC5 IC6 ,7		* * * * *	BA668A AN6562 LB1473 LB1493 LB1290	IC(12PT FL PEAK LEVEL METER DR IC(0P AMP) X2 IC(16CH FREQ DISPLAY LED DR) IC(5PT FL LEVEL METER DRIVER) IC(8CH TRANSISTOR ARRAY)	-	
IC8 IC10 IC11 Q1 -3 Q1 -3		*	TD63D1AP UPD4D01BC UPD4D13BC 2SC232D(E,F) 2SC945(A)(Q,P)	IC(FL/LED/LCD FREQ DISPLAY DR) IC(NOR) X4 IC(D FLIP-FLOP) X2 TRANSISTOR TRANSISTOR	KE	
01 -5 06 -8 06 -8 09		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR	M M M	
11 ,12			2SC945(A)(Q,P)	TRANSISTOR	ME	
			V ·			

E: Scandinavia & Europe H:Audio Club K: USA

P: Canada

S: South Africa UE : AAFES(Europe)

X: Australia M: Other Areas

T: England U: PX(Far East, Hawaii)

♠ indicates safety critical components.

KA-1100SD KA-990SD BASIG-X1 GE-1100

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts

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